

Wisconsin Architect



Post Convention ● June 1983

Oxboard.[®]

Everything it takes to replace plywood, and more.

Move over plywood—here comes Oxboard, with American Plywood Association Certification as a rated sheathing panel, designed for roofing, flooring and sidewall application.

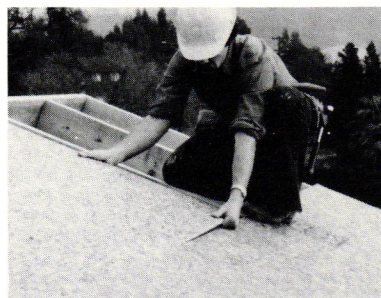


Waferboard it is not!

Don't let Oxboard's appearance fool you—it's not a waferboard. It is Oriented Strand Board. It's made of long strands of wood oriented in five alternating layers perpendicular to each other (like plywood) and bonded with phenolic resin. Oxboard is a structural panel that's superior to waferboard in every way—in strength, stiffness, weight, and dimensional stability.

Stiff as a board, strong as an ox!

Oxboard carries the same spans by thickness as softwood plywood, and it is price competitive with plywood. There the resemblance ends. Oxboard has no core voids or knot-holes, and it does not delaminate or buckle. What's more, in roofing, Oxboard 7/16" panels span 24" on center without H clips—that means faster completion at a lower cost.



Oxboard is a proven product already accepted by the construction industry and in extensive use. Over 150 million square feet has been shipped since its introduction in 1981, and demand is growing.

COMPARATIVE SPANS¹

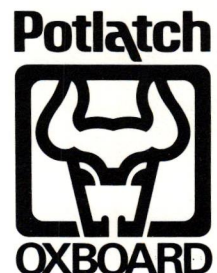
Sheathing Thickness		Oxboard and Plywood	Waferboard
3/8"	Sheathing—span index	24/0	NA
	Max. roof span/no clips	20	NA
7/16"	Sheathing—span index	24/16	24/0
	Max. roof span/no clips	24	16
1/2"	Sheathing—span index	32/16	24/16
	Max. roof span/no clips	28	24
5/8" ²	Sheathing—span index	40/20	NA
3/4" ²	Sheathing—span index	48/24	NA

1—Left-hand number is maximum recommended spacing of roof framing in inches. Right-hand number is maximum span between floor joists.

2—5/8" and 3/4" Oxboard panels are APA certified for Sturd-I-Floor applications with the same span ratings as plywood.

Fully Code approved for plywood replacement.

Oxboard is available with scuffed surface for roofing and sheathing, and sanded and tongue-and-grooved for Sturd-I-Floor applications. It's recognized by ICBO, BOCA, SBCC building codes, and is covered by HUD/FHA materials release #838. Further information is available from Potlatch Corporation, West 222 Mission, P.O. Box 5414, Spokane, WA 99205. 509/458-4500.





WISCONSIN ARCHITECT

JUNE 1983

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COVER CREDIT:

"Stairs" by Frank Dropsho, AIA
One of the artworks displayed
at the WSA Convention..

Make Public Communications part of your plan

This public building will be the working home for over 900 people, 8 hours a day, 5 days a week. Some 350 others will visit the building daily. You've designed it to stand for a hundred years or more. It's your project and you want everything to be just right.

You've spent hundreds of hours meeting with electrical, plumbing, heating and air conditioning contractors; making sure your specifications are carried out to the letter.

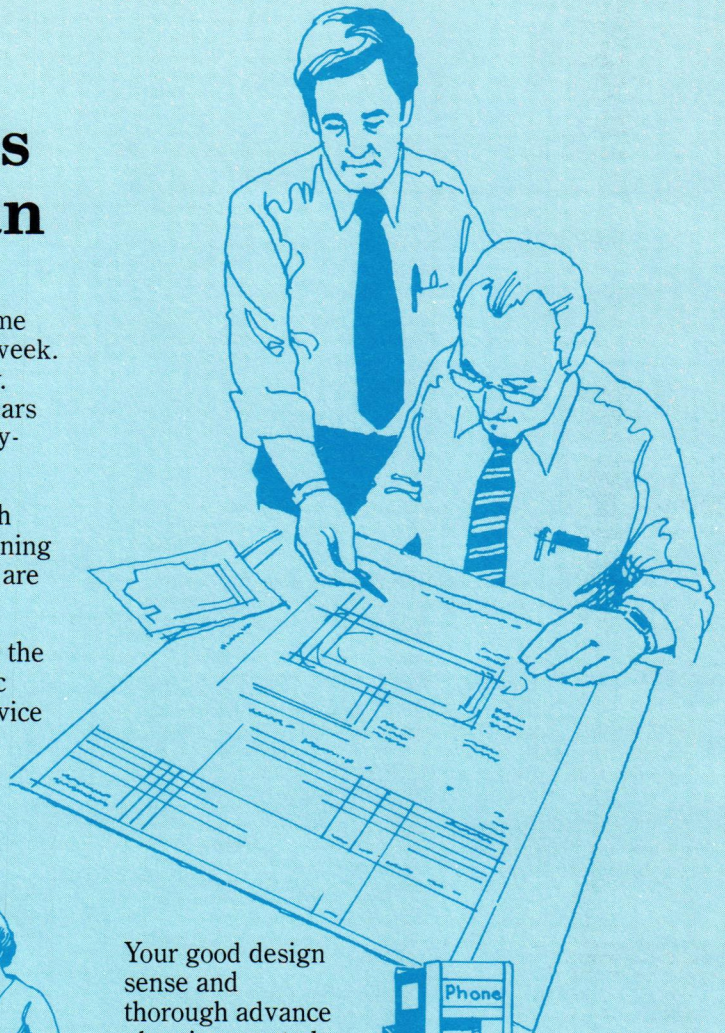
In considering the number of people visiting the building each day you recognized that public phones would be an essential element, a service that people want, need and expect.

Early on in the project you called in the Public Communications Sales Representatives at Wisconsin Telephone. Their expertise helped you survey the public phone needs of your project based on location and expected traffic flow. Together you planned where the phones would be located, how many to install and how to present them.

You considered the special needs of the disabled and chose barrier free enclosures, one with a coin slot at the proper height to be reached by someone in a wheelchair.

After you were satisfied with the location and presentation of the phones you left nothing to chance and chose signage that was in harmony with the materials, color and design of the public area.

To your client's delight, you learned that public phones can pay their own way. Commission from public phone use can add up to an attractive sum. And, because Wisconsin Telephone owns the phones, they also install and service them.



Your good design sense and thorough advance planning created a building you can be proud of. Your good judgement in calling in Wisconsin Telephone's Public Communications Sales Representatives helped you make sure that a needed public service was made available in a most efficient way.



For more information on planning for phones in a public facility call Wisconsin Telephone. It's toll free, 1 800 242-2055. They'll be able to provide you with literature and advice that will be helpful in your planning.



Wisconsin Telephone

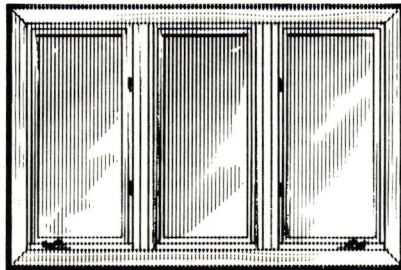
Quality custom hardwood stairs



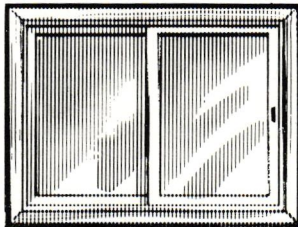
 **Cooper Stair Company, Inc.**
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1331 Leithton Road Mundelein, Illinois 60060 (312) 362-8900

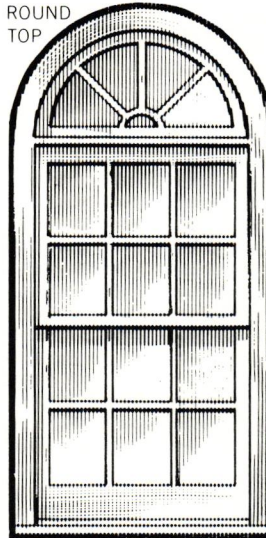
OUR NEW LINE OF WINDOWS IS JUST WHAT OUR CUSTOMERS ORDERED.



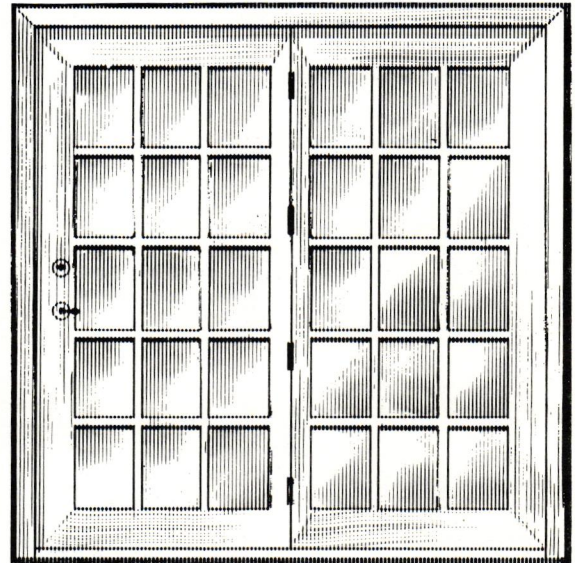
CASEMASTER



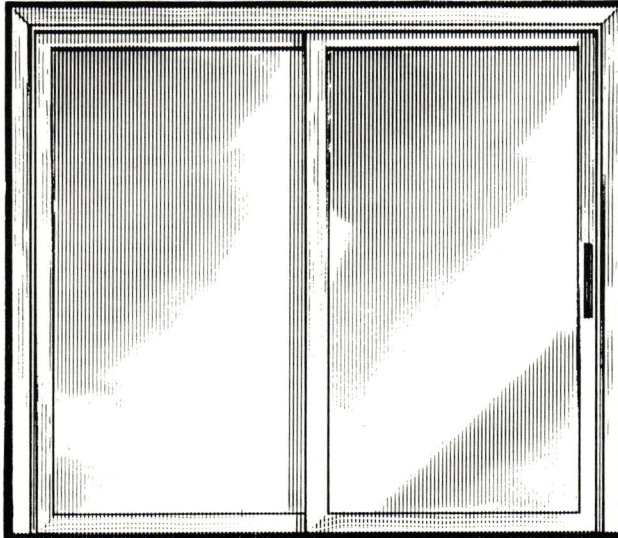
SINGL-GLIDE



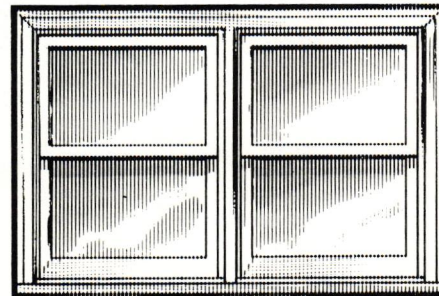
DOUBLE HUNG E-Z-TILT



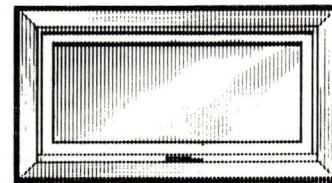
TERRACE DOOR



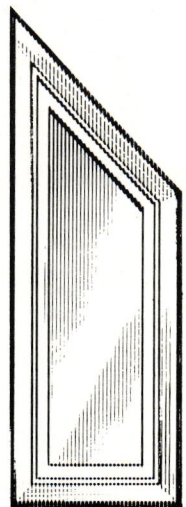
PATIO DOOR



SINGL-LIFT



STACK & STRIP



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Marvin Windows can be made to order for you in any of more than 1,500 sizes and shapes. You can choose casements, gliders, double hungs, single hungs, pictures, triangles, trapezoids, even round top windows, terrace doors and patio doors.

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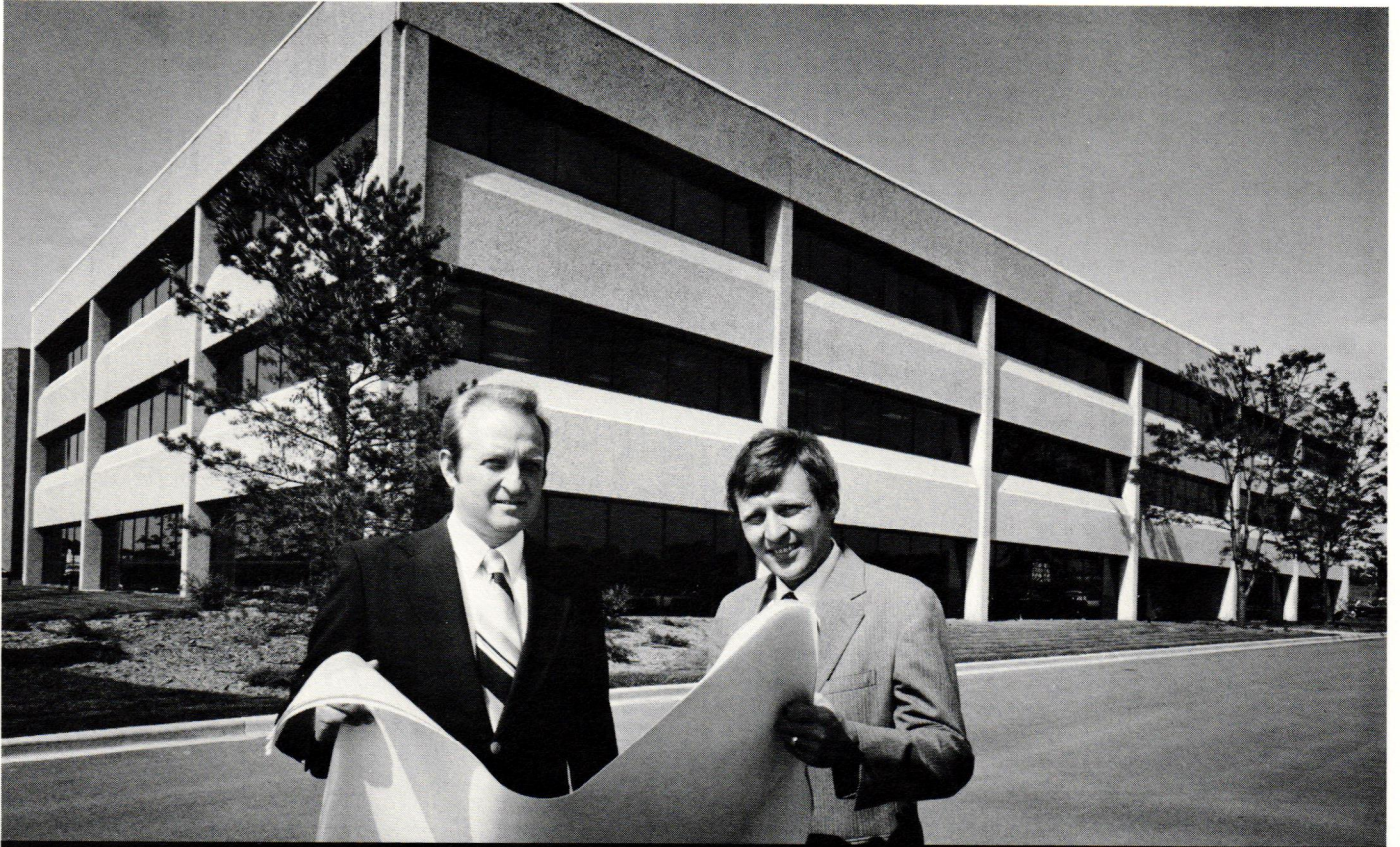
And we'll deliver your windows fast.

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FIRST...will not be LAST

Two neighboring buildings of comparable size...started at the same time. The first tenant was in the Trammell Crow Company's elegant Lincoln Center I last November ...some five months before the nearby steel and brick building could be occupied.

JON HAMMES, MANAGING PARTNER, MILWAUKEE, THE TRAMMELL CROW COMPANY, WEST ALLIS, WISC.

"J. W. Peters, working closely with our architect, engineer and contractor, provided a building—including structural frame—of exceptional quality. Its exposed aggregate surfaces are both attractive and almost maintenance free. Construction time now has greater economic importance than ever."

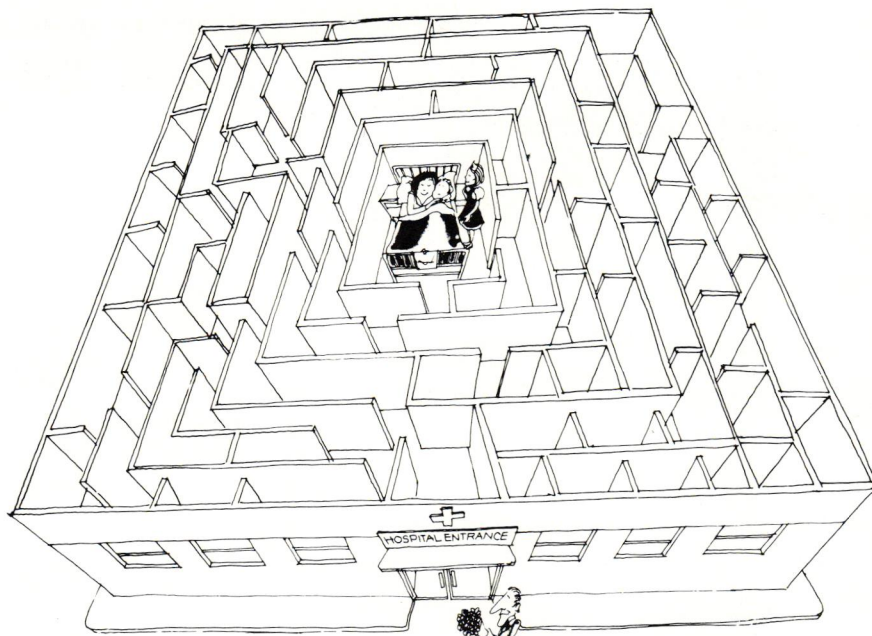
"Lincoln Center I was our first prestressed concrete building in West Allis, Wisconsin. Pleased?
We look forward to working with J. W. Peters on Lincoln Center II."

(Mr. Hammes, right, with Bob Hassey of J. W. Peters) Architect:
Wilson & Jenkins, Assoc. Engineer: William Smith
Engineers Genl. Contractor: The Lee
Corporation

JW PETERS

AND SONS

West Market St., Burlington, WI 53105
414/763-2401 (Burlington)...414/272-7222 (Milwaukee)...312/782-4691 (Chicago)



We make it easier for him to find her.

Finding your way around the maze of hospital floors and corridors can be a painful experience. But we can help ease the pain.

At ASI, we manufacture interior and exterior sign systems that make it easy to find what you're looking for.

Our experience is the result of 15 years of manufacturing and maintaining sign systems for hundreds of hospitals. And because we also have a national network of 30 franchised manufacturing companies, we can offer you fast, local service on all your signing needs.

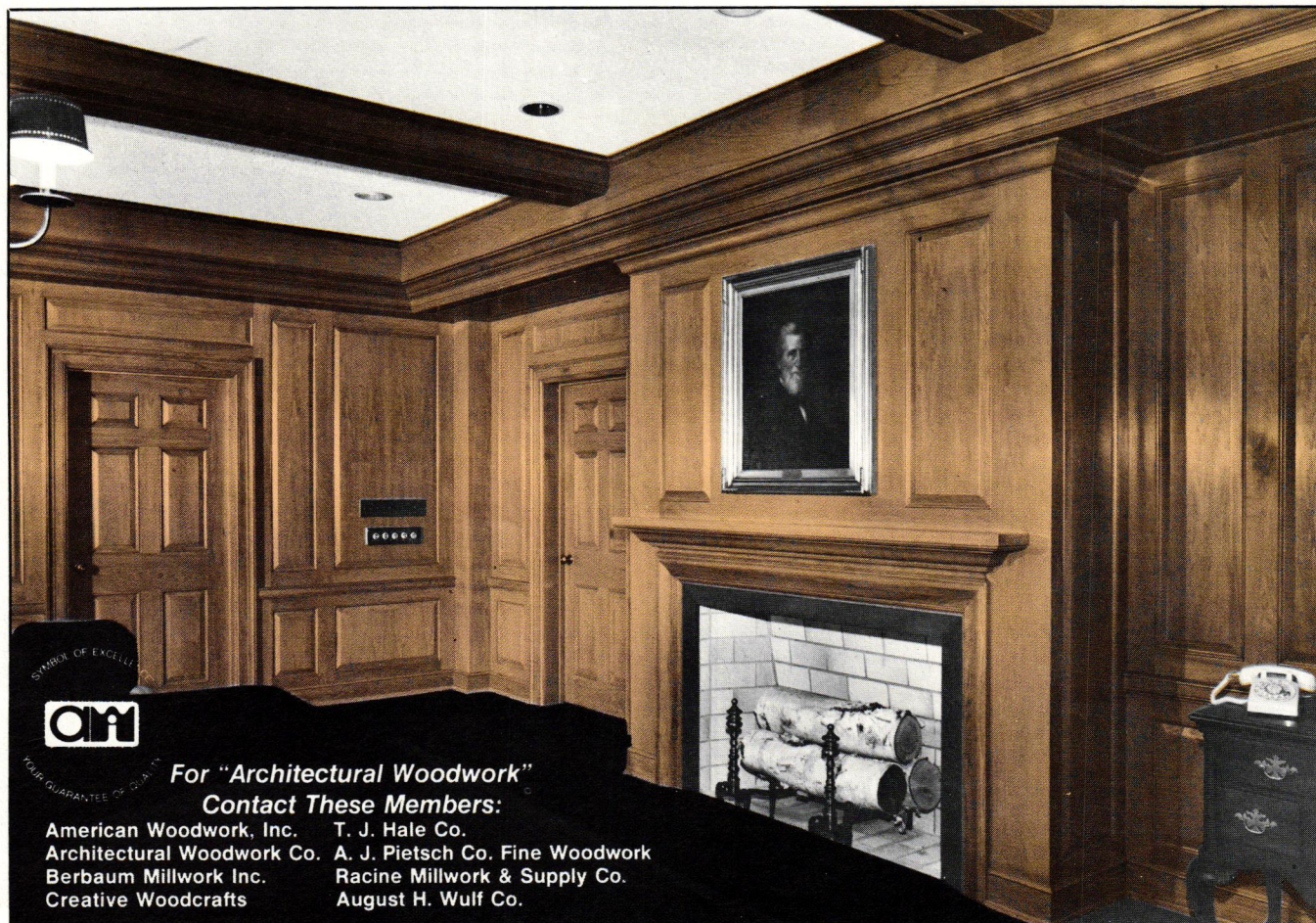
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VANQUISH THE DARK AGES

Let us vanquish those old dragons that said, "Faucets are supposed to turn on water...not people."

Hail IV Georges Brass.™

It's Kohler's richly turned brass faucet designed with the ornamentation of England's IV Georges era,

the elegance of our Georgian period and the warmth of brass and wrought iron.

IV Georges has inspired accessories for the bath and powder room: Soap dishes, towel rings and bar,



tumbler/toothbrush holder, robe hooks, mirrors, whirlpool jets, and other finery.

Come Lord. Come Lady. Vanquish the Dark Ages. Draw on the mettle that is IV Georges Brass.

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Wisconsin Rapids, WI 54494
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2111 Engel Road
Wisconsin Rapids, WI 54494
Telephone: (715) 421-1585

Wisconsin Architect - Introspection

As part of the recently completed WSA 52nd Annual Convention, the Editorial Board of the WISCONSIN ARCHITECT sponsored a "Town Meeting" and invited comment, suggestions, criticism, etc., from anyone interested. This meeting was well attended and generated a number of ideas for future issues of the magazine.

During the course of this meeting, it became clear that there is a need for further education of the readers of the WISCONSIN ARCHITECT regarding numerous matters. A few of these points include the following:

CONTENT

The Editorial Board of the WISCONSIN ARCHITECT is the final judge of materials to be published in the magazine. The Editorial Board is anxious to publish materials of interest to the Wisconsin design and construction industry. WSA members who have projects they would like to be published are encouraged to call Eric at the WSA office to discuss such publication. The Editorial Board feels that the content of the magazine has steadily improved over the past several years and encourage readers to submit projects for publication. Additionally, the Editorial Board is always looking for your ideas as to topics which should be covered. If you've got a bright idea . . . just call Eric and we'll see what we can do.

READERSHIP

The WISCONSIN ARCHITECT is currently distributed to all WSA members, as well as a vast number of contractors, consulting engineers, interior designers, landscape architects, and others involved in the Wisconsin Construction Industry. The magazine's circulation has doubled during the past 18 months and we continue to receive requests for new subscriptions or expanded circulation.

wisconsin architect/june 1983

ADVERTISEMENTS

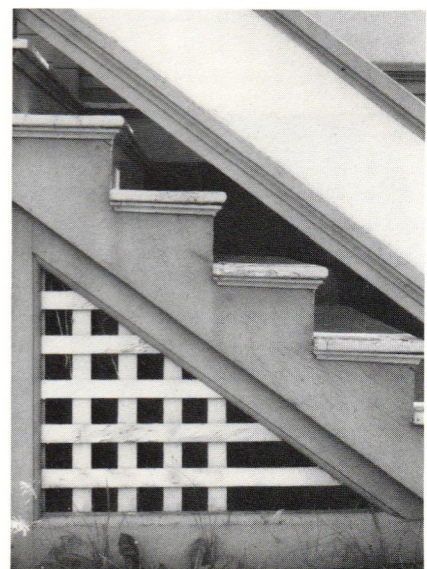
The WISCONSIN ARCHITECT is wholly sufficient upon advertising income to pay for the costs of producing and distributing the magazine. All readers of the magazine are encouraged to read the advertisements, contact advertisers, and, where possible, support advertisers. Without the commitment of advertisers to the WISCONSIN ARCHITECT there would be no WISCONSIN ARCHITECT.

ON THE BOARDS

During the past six months the Editorial Board instituted an "ON THE BOARDS" feature in the magazine. This feature provided WSA members with the opportunity to display projects currently in the design phase. This feature was well read by all those who received the magazine. The problem . . . it is almost a full time job to get firms to submit the materials necessary to publish this column. We have a short form which can be filled out in less than ten minutes. If you are interested in having "ON THE BOARDS" continued . . . please submit materials. If you've misplaced the appropriate form . . . call Sandra at the WSA office.

CONCLUSION

It appears that the perception of WSA members, the WISCONSIN ARCHITECT Editorial Board, and others who read the WISCONSIN ARCHITECT is that the magazine is healthy, viable, and growing. In order for the magazine to maintain this status, we need your help. Read the advertisements. Submit projects for "ON THE BOARDS". Suggest topics for articles. Submit projects for publication. This is your magazine . . . help us make it continue to work.



"Convention Highlights"



Robert Broshar, FAIA president of the American Institute of Architects addresses Wisconsin architects.



Harry Schroeder, AIA, WSA secretary/treasurer reports on the financial condition of the WSA.



Sandra and Karen man ("woman") the registration desk.



Wisconsin Architects Foundation annual meeting.



Honor Awards Banquet Head Table.



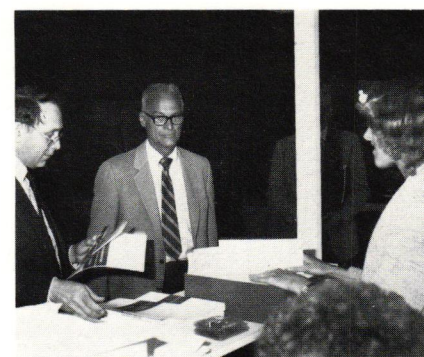
At last . . . a meeting room designed for comfort and viewing slides.



Southeast Chapter Bob Cooper makes a presentation to Wisconsin Architects Foundation president Len Reinke, FAIA.



Architects, guests and exhibitors learn in the exhibit hall.



WSA Vice President Fred Zimmermann and Paul Bronson of Best Block Company register for the Convention.



Four playgirls who found a better calling . . . they became involved in architecture.



Lloyd Krueger, AIA talks about solar tracking.



Don't try to draw to that trio.



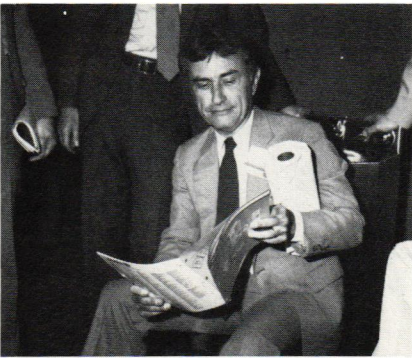
UW-M SARUP students erect the exterior welcome to the convention.



Badger Exposition hard at work setting up exhibits.



Sarah Harkness, FAIA



Ron Bowen, AIA takes his regular respite.



Take your pick . . . WSA Soccer Team or WSA Fun Run Participants.



Gordon Orr, FAIA and Gerry Schwoch, AIA enjoy food, drink and fellowship.



The Indians marched on The Americana - representatives of Wisconsin Indianhead Technical Institute.

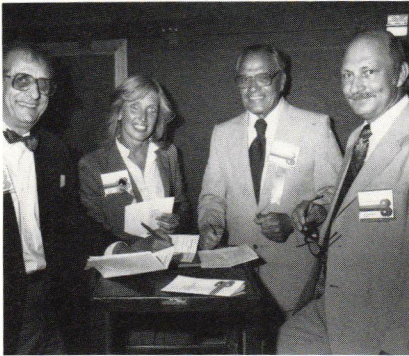


WSA Convention Chairperson Emma Macari, AIA celebrates a successful party.



UW-M SARUP professor Robert Greenstreet interacts with his colleagues and peers.

Booth Award Winners



Murray Kinnich, AIA; Mary La Certe, AIA; Joe Durrant, FAIA; and Jim Gabriel, AIA juried the exhibit booths for design excellence.



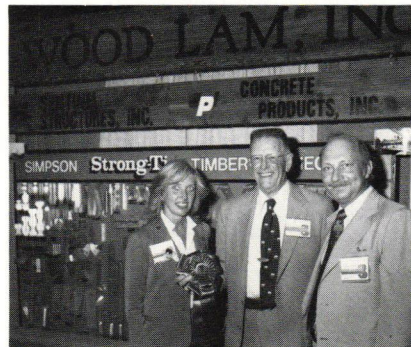
First Place - Architectural Woodwork Institute - John Hossli, Jack Hale and Jeff Stuck accept the award.



Honorable Mention - Halquist Stone Co., Inc. Dave Grueschow and Ron Yeisley.



Second Place - Masonry Institute of Wisconsin - Norbert Hynek accepts the award.



Honorable Mention - Woodlam, Inc., Don Osenga accepts the award.



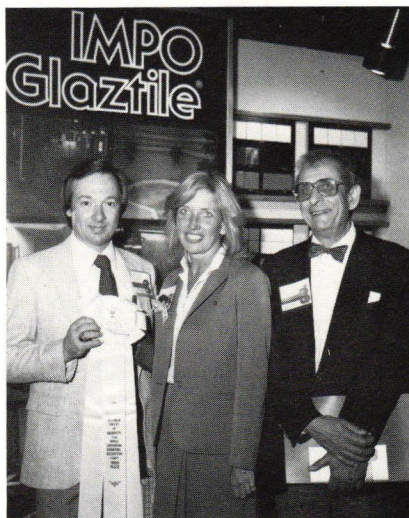
Honorable Mention - Northwestern Elevator Company. John Hoppe and Miss Wisconsin accept the award.



Honorable Mention - Formica Corporation. Sylvia Hauser accepts the award.



Honorable Mention - Midland Brick Sales - William C. Forsythe accepts the award.



Third Place - Jaeckle Wholesale Inc. - Fred Jaeckle accepts the award.



Honorable Mention - Engstrom Sales Co., Inc. Scott Madsen accepts the award.



Honorable Mention - Advance Plastic & Glass - Gordon Merz accepts the award.

Exhibitor Directory

This is a list of the firms who supported the 1983 WSA Convention by displaying their product line in our annual educational exposition. We thank these exhibitors and encourage you to contact them when you need assistance on a project. We hope to see these exhibitors again in 1984.

ADT Security Systems
2605 W. Vliet St.
Milwaukee, WI 53205
Dave Seeling

Advance Plastic & Glass
4563 N. Hopkins
Milwaukee, WI 53209
Gordon Merz

A/E Graphics
3620 N. 126th St.
Brookfield, WI 53005
Fred Gennerman

Alpana Aluminum Products
8 Arbor Court
Buffalo Grove, IL 60090
Gerry Klitzka

Andersen Windows
1150 Greenway Terrace, #5
Brookfield, WI 53005
Rick Dorwart

Architectural Woodwork Inst.
1751 Ripley Road
Cambridge, WI 53523
Thomas Nail

Armco Building Systems
1200 Harger Rd., Ste. 707
Oak Brook, IL 60521
John Ensign

Barcol Overdoor Co., Inc.
1007 Calumet Ave.
Valparaiso, IN 46383
C. F. Wilson

Best Block Co.
Box 1000
Butler, WI 53007
Robert Dean, Jr.

Bublitz, Inc., Subsidiary F. Hurlbut Co.
Box 3383
Green Bay, WI 54303
Edward Girard

John Buhler Co., Inc.
1331 N. 29th St.
Milwaukee, WI 53208
John Buhler

Building Service, Inc.
620 N. 108th Place
Milwaukee, WI 53226
Thomas Klug

Cardinal IG
6700 Excelsior Blvd.
Minneapolis, MN 55426
Mike Curtis

Champion Companies of Wis.
1850 S. Calhoun Road
New Berlin, WI 53151
Dick Williams

The Cheney Co.
3015 S. 163rd St.
New Berlin, WI 53151
Shirley Hanover

ChildCrest Distributing, Inc.
6045 N. 55th St.
Milwaukee, WI 53218
Christine Davidson

Chroma Copy
135 W. Wells St., Ste. L-10
Milwaukee, WI 53203
Hal Hansen

Cold Spring Granite Co.
Box 142
Elkhorn, WI 53121
Duane Lehn

Coolidge Glass Co.
17155 Glendale Drive
New Berlin, WI 53151
Tony Steinweber

Cooper Stair Co.
1331 Leithton Road
Mundelein, IL 60060
James Cooper

Cornell Iron Works, Inc.
Crestwood Industrial Park
Mountaintop, PA 18707
Dick Jastremski

Derse Technical Signage/ASI Sign Systems
1234 N. 62nd St.
Milwaukee, WI 53202
Pat Esgate

Desert Aire Corporation
5633 W. Florist Ave.
Milwaukee, WI 53218
Jim Metzger

Donovan Floors, Inc.
759 N. Milwaukee St.
Milwaukee, WI 53202
James Donovan

Dor-O-Matic of Wis., Inc.
6800 Industrial Loop
Greendale, WI 53129
Mark Kalth

Edward Sales
6530 Cambridge St.
Minneapolis, MN 55426
David Plummer

EFCO Corporation
Box 609
Monett, MO 65708
Craig Brewerton

Engstrom Sales Co., Inc.
Box 537
Menomonee Falls, WI 53051

Fabcon, Incorporated
6111 W. Highway 13
Savage, MN 55378
Gerry Anderson

David Fogelstrom & Assocs.
Box 693
Waukesha, WI 53187
David Fogelstrom

Formica Corporation
10401 W. Touhy Ave.
Rosemont, IL 60018
Sylvia Hauser

Gagnon Clay Products Co./
Wis. Face Brick & Supply Corp.
Box 18432
Milwaukee, WI 53218
Claude Gagnon

Geis Building Products
Box 622
Brookfield, WI 53005
Dan Hinkes

Graham Architectural Products Corp.
Box 14C
Maple Lake, MN 55358
Denis Sipe

Halquist Stone Co., Inc.
Box B
Sussex, WI 53089
Ron Yeisley

The Harland Corporation
274 Hickory Court
Hartland, WI 53029
Ken Dickert

Hayfield Window & Door Co.
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Hayfield, MN 55940
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Jahn & Sons, Inc.
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Addison, IL 60101
Debi Ciolkowski

The Julien Shade Shop, Inc.
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Erv Julien

Kawneer
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James Burmeister

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Herman Bollig

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906 Moorland Road
Madison, WI 53713
Fred Holtzman

Ludowici-Celadon Co.
1642 E. 56th St., #307
Chicago, IL 60637
Glenn Hieke

Marvin Windows
c/o Builders World, Inc.
Box 881
Waukesha, WI 53187
Marc Shuter

Masonry Institute of Wis.
4300 W. Brown Deer Road
Milwaukee, WI 53223
Norbert Hynek

Mid-Continent Cabinetry
2920 North Brookfield Road
Brookfield, WI 53005
Jerry Mahrt

Midland Brick Sales
101 Ashworth Road
West Des Moines, IA 50265
Art Jacobson

Mid West Plastics, Inc.
North Street
Pembine, WI 54156
Dave Paasch

Milwaukee Insulation
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New Berlin, WI 53151
Clay Van Gompel

Minnesota Diversified Products
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Pierre Husson

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Two Rivers, WI 54241
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Thomas Rosenberg

Otis Elevator Company
10506 W. Bluemound Road
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Plastics, Inc.
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Elk Grove, IL 60007
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Milwaukee, WI 53204
Mark Poblocki

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Bob Snow

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Mt. Hope, OH 44660
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Wisconsin Automatic Door, Inc.
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Brookfield, WI 53005
Tony Christifolli

Wisconsin Gas Co.
626 E. Wisconsin Ave.
Milwaukee, WI 53202
Gerry Bay

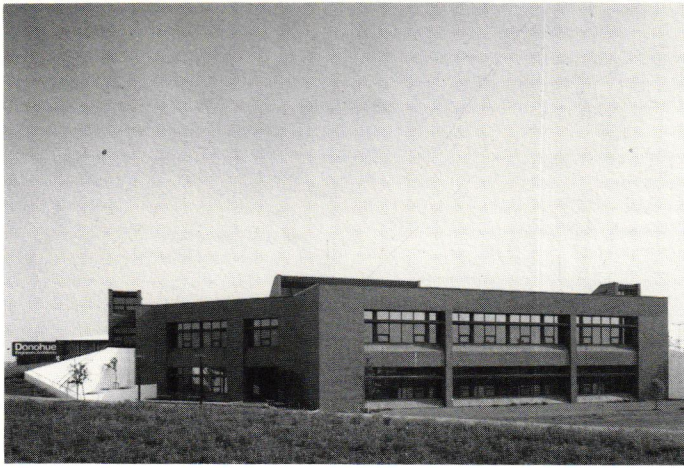
Wisconsin Office Systems,
Incorporated
7101 North Green Bay Rd.
Milwaukee, WI 53209
Tom Dillon

Wisconsin Telephone
Public Communications
722 North Broadway
Milwaukee, WI 53202
Libbi Moriarty

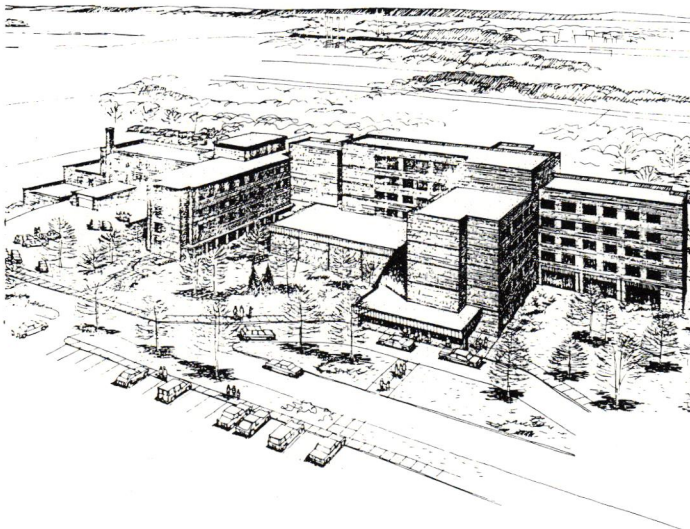
Wisconsin Wire & Steel, Inc.
4320 North 126th St.
Brookfield, WI 53005
Thomas Luther

Wood Lam
230 Sussex St.
Pewaukee, WI 53072
Thomas Osenga

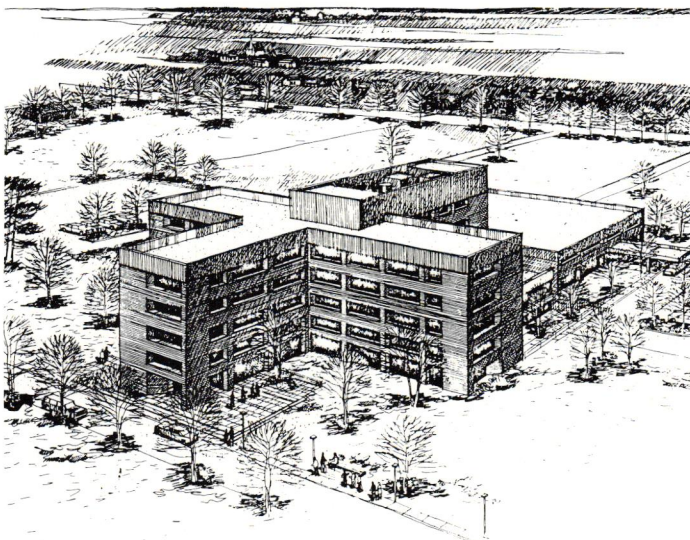
Zenith Products Co.
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Osseo, MN 55369
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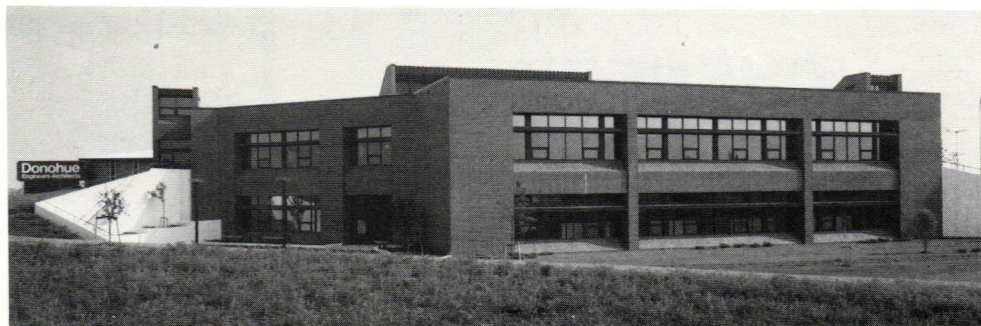


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PHOTOGRAPHER'S CREDIT

Uel Ramey



The Owner, an architectural/engineering firm, had four primary requirements for its new corporate headquarters: (1) that the building provide office and meeting space for executives, administrative personnel, and some professional design staff; (2) that the space initially accommodate 80 people and, with company growth, be flexible enough to expand to 120; (3) that the building be energy efficient, both reducing operating costs and functioning as a marketing tool for showcasing working concepts in passive solar, daylighting, and spatial design; (4) that the building convey a sound and enlightened corporate image.

The south slope is an important part of the design solution, making possible an extensive southern exposure to maximize direct heat gain during winter, as well as creating a natural earth berm to the north to protect the building from prevailing winter winds. The southern exposure also serves to relate the building away from the interstate for aesthetic and noise control purposes; berming and stair towers provide further visual and noise protection.

Passive solar and daylighting design elements were an integral part of the overall building concept. For example, maximum storage of solar heat gain dictated a heavy building mass, achieved through a structure of pured concrete, with exterior walls of concrete and brick masonry. Interior thermal masses include concrete masonry, quarry tile, and water tubes. These materials lend themselves to the crisp symmetry of the building design and serve to reinforce the firm's corporate image of offering cost-effective and quality-conscious professional design services.



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tile for
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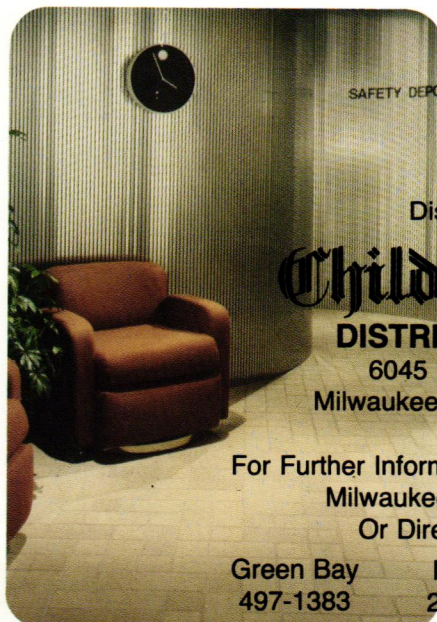
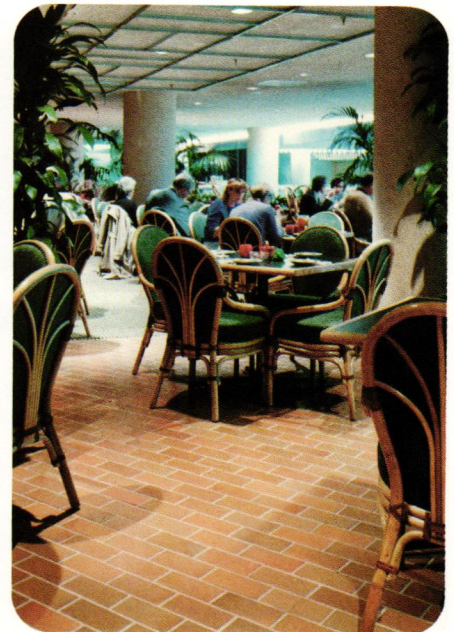
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IRONROCK® Reduction-Fired Colors

220 Adobe

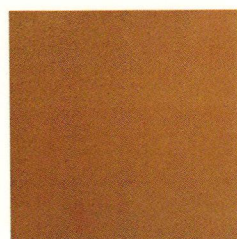
Sizes: (Nominal)
4" x 4" x 1/2"
4" x 8" x 1/2"
8" x 8" x 1/2"
(assuming 3/8" joint width)



4x4"



4x8"



8x8"

250 Galaxy Ironspot

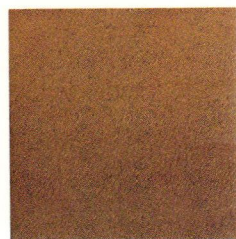
Character:
High density, unglazed ceramic tile with lightly textured die-skin surface, reduction-fired for natural, rangy, colors. Tile body re-



4x4"



4x8"



8x8"

270 Royal Ironspot

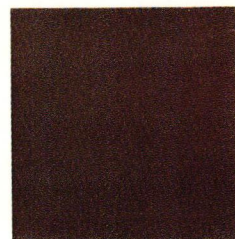
sists damage due to freeze/thaw and thermal shock, and test averages a slip resistance of FC .6.



4x4"



4x8"



8x8"

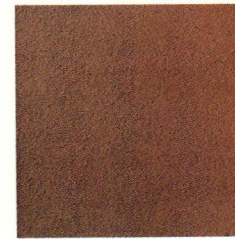
350 Harvard Square



4x4"



4x8"



8x8"

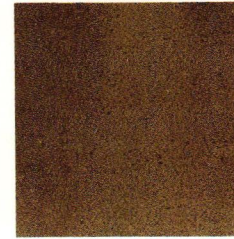
450 Cordoba



4x4"



4x8"



8x8"

103 Parchment

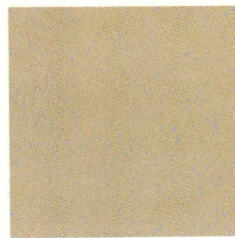
Sizes: (Nominal)
4" x 4" x 1/2"
4" x 8" x 1/2"
8" x 8" x 1/2"
(assuming 3/8" joint width)



4x4"



4x8"



8x8"

105 Buckskin

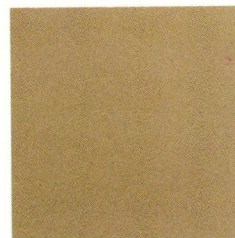
Character:
High density, unglazed ceramic tile with clear-toned colors fired under an oxidizing atmosphere resulting in uniform to narrow ranges of soft brown tones and cool grays. The sur-



4x4"



4x8"



8x8"

107 Boulevard

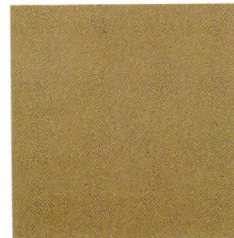
face is lightly textured. Tile body resists damage due to freeze/thaw and thermal shock, and test averages a slip resistance of FC .6.



4x4"



4x8"



8x8"

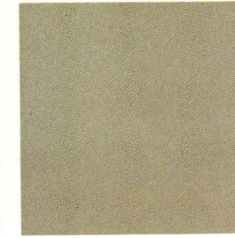
505 Plaza Gray



4x4"



4x8"

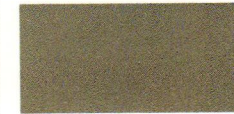


8x8"

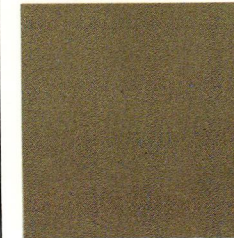
507 Puritan Gray



4x4"



4x8"



8x8"

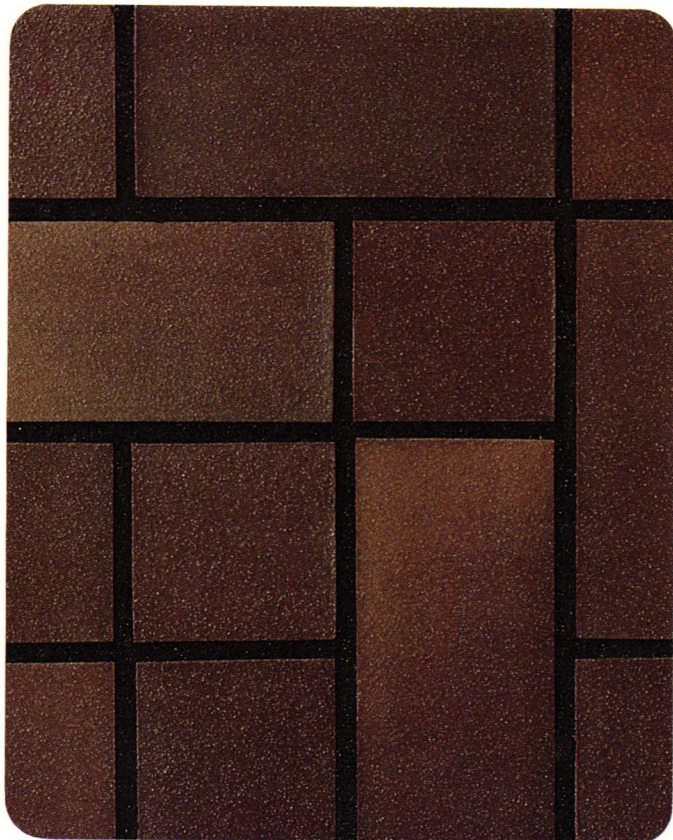
IRONROCK® Clear Toned Colors



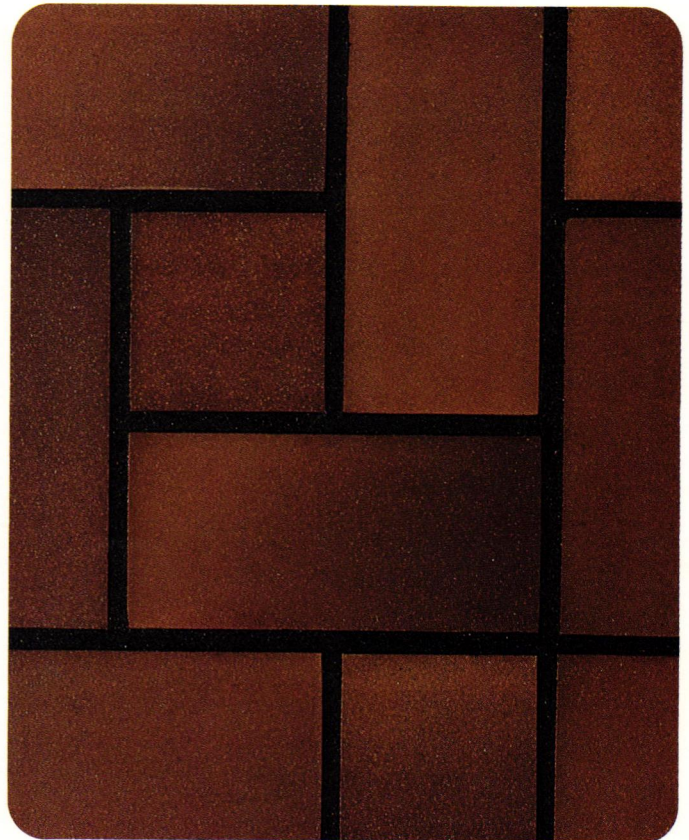
220 Adobe IRONROCK laid in common bond (1/2 bond) vertically employing 4x8" size with sand beige grout.



250 Galaxy ironspot IRONROCK laid in formal random pattern employing 4x4", 4x8", and 8x8" sizes with brown grout.



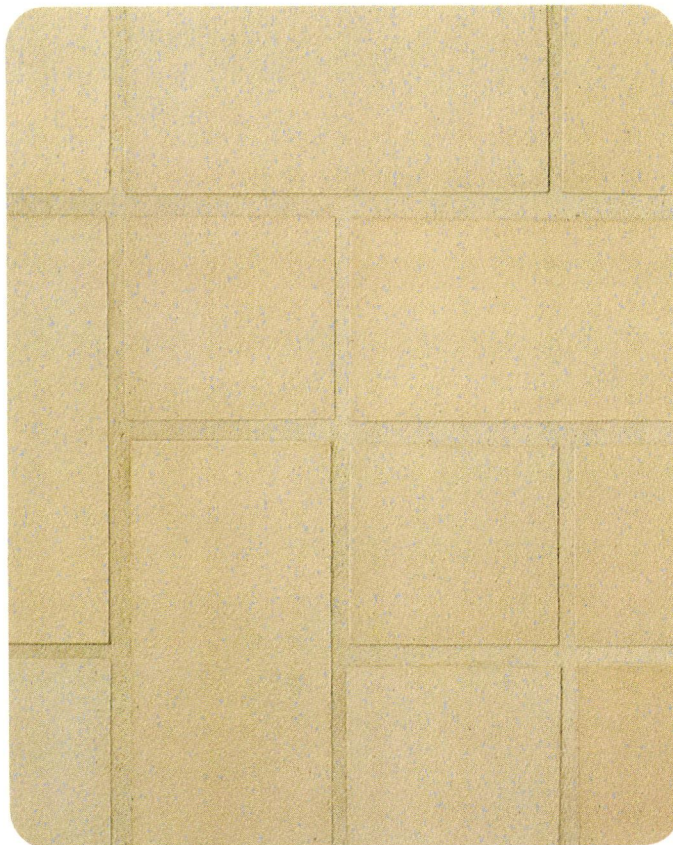
270 Royal Ironspot IRONROCK laid in herringbone pattern with 4x4" insert, employing 4x4" and 4x8" sizes with brown grout.



350 Harvard Square IRONROCK laid in pinwheel pattern employing 4x4" and 4x8" sizes with char brown grout.



450 Cordoba IRONROCK laid in common bond pattern, vertically, employing 4x8" sizes with flashed walnut grout.



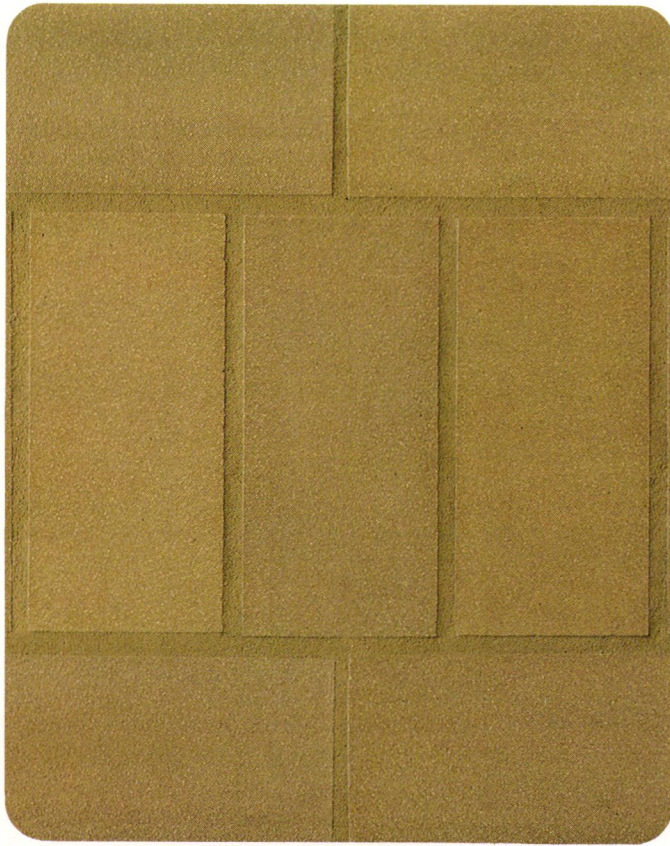
103 Parchment IRONROCK laid in herringbone pattern with 4x4" insert, employing 4x4" and 4x8" sizes with natural colored grout.



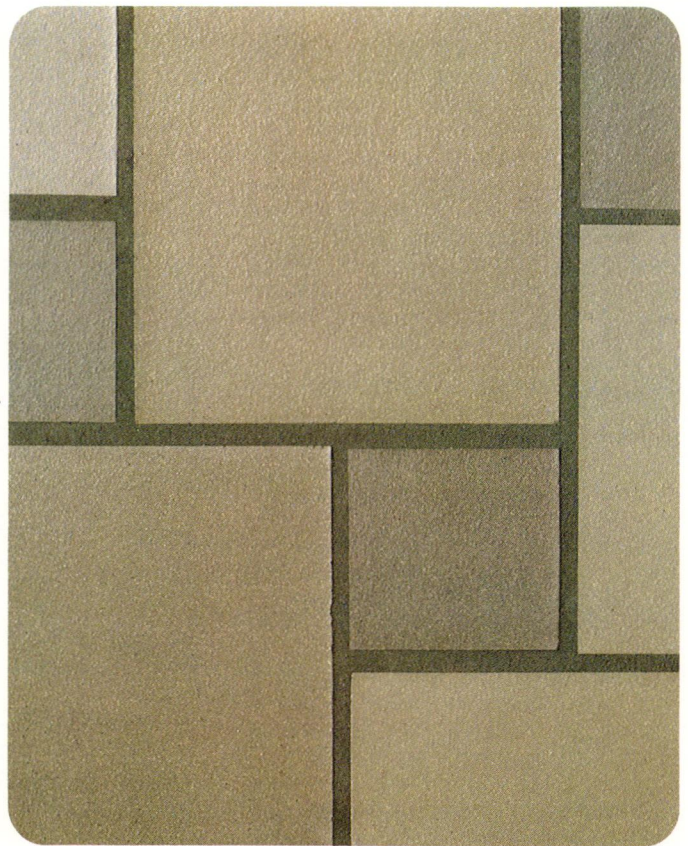
103 Parchment, 105 Buckskin, 107 Boulevard IRONROCK in stack bond on 45° angle with 4x4" soldier course, employing 3 mixed colors in 4x4" size with natural colored grout.



105 Buckskin IRONROCK laid in flemish bond pattern employing 4x4" and 4x8" sizes with natural colored grout.



107 Boulevard IRONROCK laid in combination running bond and stack bond employing 4x8" size with natural colored grout.



505 Plaza Gray IRONROCK 8x8"s with 507 Puritan Gray 4x4"s with gray grout.



505 Plaza Gray IRONROCK in flemish bond, employing 4x8"s and 4x4"s with natural colored grout.



507 Puritan Gray IRONROCK in circular pattern employing 4x4"s with gray grout.

What is IRONROCK?

Metropolitan Ceramics' IRONROCK tile is generally recognized as the foremost natural, unglazed, high density ceramic tile line made in the United States. No other tile line combines our unique manufacturing techniques and wide choice of reduction-fired and clear tone colors. IRONROCK's aesthetic appeal, complete blendability of colors, and high performance characteristics are, we believe, unmatched by any other tile.

IRONROCK begins with Metropolitan's long history as a distinguished manufacturer of street pavers dating back to 1902. Our modern production operation draws heavily on our past experiences to produce naturally beautiful tile with exceptional durability. There are no unnatural colors or applied surfaces. The well-knit, high density IRONROCK body and tight die-skin finish resists soiling and is easy to maintain. (see Initial Cleaning and Recommended Maintenance) All IRONROCK tile are made at the Metropolitan Ceramics plant in Canton, Ohio, U.S.A. from the finest raw materials available, under the strictest quality control standards. Wearability with IRONROCK is a natural process producing a natural patina and character.

Test results & characteristics

Metropolitan's paving brick experience and extensive product development programs assure performance standards that exceed all applicable ANSI (American National Standards Institute) minimums, as shown by the following test results.

Specification	Test	IRONROCK
Absorption 5-Hour Boil	ASTM C67-81	3% Max. Qualifies as Vitreous
Compressive Strength	ASTM C67-81	Min. 10,000 P.S.I.
Freeze/Thaw	ASTM C67-81 Special Metropolitan Freeze/Thaw Test	Min. 150 Cycles Min. 3,000 Cycles
Abrasion Resistance	ASTM C501-80	Index of 35 or Better
Breaking Strength	ASTM C648-78	Min. 300 lbs.
Shear-Bond Strength	ASTM C482-81	Min. 200 P.S.I.
Slip Resistance	SE-781	F _c 0.60 or Better
Size Variation	ASTM C499-78	± 1.5% Max. Variation
Wedging	C502-78	Max. 1%
Warpage	ASTM C485-78	Max. 1.0% Along Any Edge
Thickness	ASTM C499-78	Max. Range of .040

By ANSI Standard Specification A137.1-1980, IRONROCK technically is classified as a quarry tile since it is manufactured by the extrusion process. In addition, however, the exceptional technical characteristics noted above enable IRONROCK to be used in virtually any application suitable for ceramic tile.

NOTE: No matter how service-worthy IRONROCK is, however, keep in mind that no tile can outperform the mortar or mastic with which it is bonded to a surface, or the surface itself — be it a concrete slab, block, concrete, cementitious paneled wall, or wood surface. For this reason, we guarantee that IRONROCK tile will meet our specifications, but we cannot guarantee the installation. On any building project, sound construction practices and Tile Council of America recommended procedures must be followed if the tile surface is to perform as desired.

Where IRONROCK can be used

By reason of the properties just described, IRONROCK tile can be specified and used, when installed according to Tile Council of America standards, for horizontal and vertical interior and exterior surfaces.

A typical IRONROCK specification

A typical specification to assure the use of Metropolitan Ceramics' IRONROCK unglazed tile on your next job should be written as follows:

Ceramic tile shall be IRONROCK as manufactured by Metropolitan Ceramics, Canton, Ohio 44711. The body composition shall be of the finest shales and clays producing a uniformly dense body with slip-resisting texture.

Color shall be:

Size shall be:

Patterns: As per drawing.

Grout: Compatible color as approved by architect.

Test results shall be available upon request.

Specifications for various types of installations

EXTERIOR ROOF DECKS

Follow current TCA Handbook for Ceramic Tile Installation Performance Guide F103, ANSI Installation Specification A108.1

EXTERIOR PATIOS, WALKWAYS, POOL DECKS

Follow TCA Performance Guide F102, ANSI Specification A108.5. For application to concrete slabs with variations in the surface in excess of 1/8" in 10', use detail from TCA Performance Guide F101 employing a 3/4" to 1-1/4" mortar bed, but

use Latex-Portland Cement mortar, and grout. Always follow manufacturers' mixing and use specifications precisely.

EXTERIOR WALLS

Follow TCA Performance Guide W201 or W202 depending on condition and soundness of exterior walls, but always use Latex-Portland Cement Mortar. Use appropriate ANSI Installation Specification, either A108.1 or A108.5.

INTERIOR FLOORS ON CONCRETE SUBFLOOR

Follow appropriate TCA Performance Guide F-111, F-112, F-113, F-114, F-115, F-116. Appropriate interior floor details and performance guides also appear in the TCA Handbook for waterproof floors, conductive floors, chemically resistant floors under guide numbers F-121, F-122, F-131, F-132, F-133, and F-134. In all cases, follow appropriate ANSI Installation Specifications and all manufacturers' detailed instructions accompanying materials being used.

INTERIOR FLOORS OVER WOOD SUBFLOORS

Follow TCA Performance Guides F-141, F-142, F-143, F-144. In all cases follow appropriate ANSI Installation Specifications and manufacturer's detailed instructions accompanying materials being used.

INTERIOR WALLS

Follow TCA Performance Guides W-211, W-212, W-213, W-221, W-222, W-223, W-231, W-241, W-242, W-243, or W-244. In all cases, follow appropriate ANSI Installation Specifications and manufacturers' detailed instructions accompanying materials being used.

Additional specialized installation performance guides are also published in the TCA Handbook for Ceramic Tile Installation along with recommended ANSI Installation Specifications.

The Tile Council of America Handbook for Ceramic Tile Installation is available through ceramic tile distributors, contractors, from Metropolitan Ceramics, Inc., or by sending \$1.00 to The Tile Council of America, Inc., P.O. Box 326, Princeton, New Jersey 08540.

The American National Standard Specifications for the Installation of Ceramic Tile (ANSI), a must for writing fully detailed specifications, is also available from The Tile Council of America, Inc. at \$3.00 per copy.

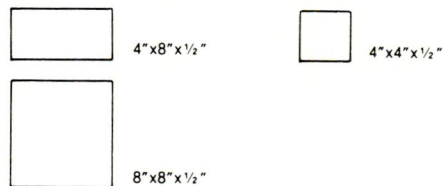
Information on specifications for the correct detailing of concrete slabs and floors on grade to support various types of pedestrian and vehicular traffic can be obtained, along with consultative services, from the Portland Cement Association, 5420 Old Orchard Road, Skokie, Illinois 60077, (312) 966-6200. PCA also

maintains offices in major markets in the United States.

In addition, the bulletins published by the Materials and Methods Standards Association (MMSA), of which Metropolitan is a member manufacturer, offer valuable performance data and practical guidance in the installation of ceramic tile. MMSA Bulletins on such subjects as "Efflorescence" the "Dos and Don'ts" of Portland Cement mortar, and many other valuable pieces of data relevant to the installation of Metropolitan IRONROCK, and are available through Metropolitan Ceramics, Inc.

IRONROCK Sizes

IRONROCK is made in three standard sizes based on the use of a $\frac{3}{8}$ " grout joint: 4" x 4" (3-5/8" x 3-5/8" actual), 4" x 8" (3-5/8" x 7-5/8" actual), and 8" x 8" (7-5/8" x 7-5/8" actual). All IRONROCK tile are 1/2" thick.



Metropolitan Ceramics' unique split back manufacturing process provides IRONROCK tile with a V-grooved and striped, mechanically irregular bonding surface for a far more tenacious chemical and mechanical bond than smooth flat-backed or button-backed tile can achieve.

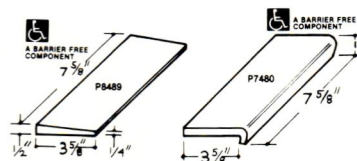
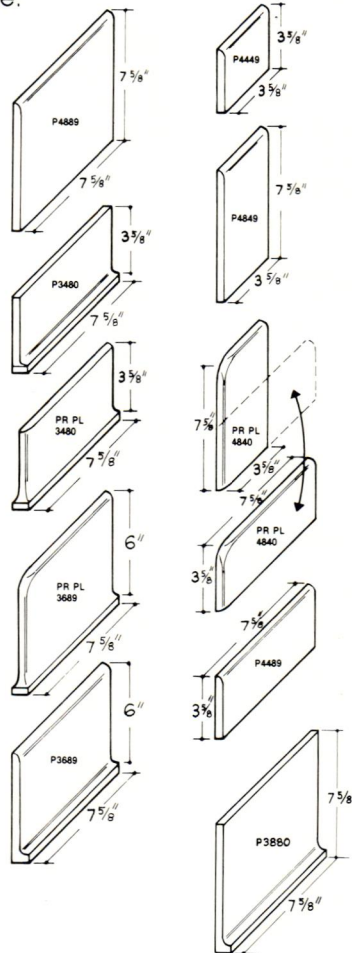
IRONROCK Trim Pieces

Metropolitan Ceramics makes a complete range of trim pieces for detailing of installations to meet local building and sanitary standards, as shown here. These pieces are offered in all standard IRONROCK colors.

The IRONROCK line features the exclusive P8489 transition tile designed to meet and exceed standards created for the barrier-free environment. The Standard calls for a slope of 1 to 20 at the leading edge of ramps and other changes in plane which might prove to be an obstacle to the person in a wheelchair or on crutches. The IRONROCK transition tile has a designed slope of 1 to 24, exceeding Barrier-Free Standards. The transition tile is also appropriate for remodeling use when making the "transition" from an IRONROCK floor to a thinner material or a door sill, for example. The transition tile rises from a 1/4" rounded edge to the full 1/2"

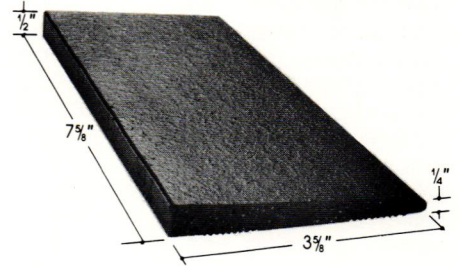
thickness of IRONROCK in 3-5/8".

Also available, and designed to meet Barrier-Free Standards, is our P7480 stair tread. The rounded nose with a slight return angle permits detailing of a barrier-free minimum 1" under cut from one step to the next, to reduce the hazard of tripping. Both the P7480 and P8489 are available in all standard IRONROCK colors and both should be back-buttered and 100% bonded for sure performance.



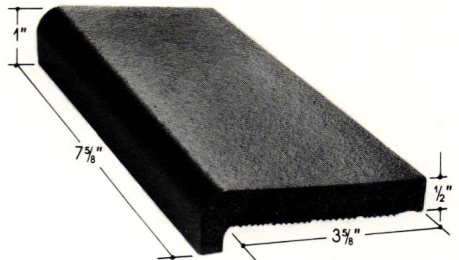
P8489 Transition Tile

Nominal 4x8"x1/2" graduated to 1/4"



P740 Stairtread

Nominal 4x8"x1/2" with 1" lip



(actual dimensions)
Ironrock components
for a Barrier-Free Environment

Should IRONROCK be sealed?

Sealing generally means the application of a material which covers the tile's surface and becomes the initial wearing surface. This type of sealing tends to alter the character of the tile by adding an initial luster, and darkening the overall color tone. To maintain this finish, however, imposes a more demanding and expensive type of cleaning and maintenance program than is necessary. Once begun, sealing requires regular cleaning and buffing to maintain the finish and to remove traffic patterns. In addition, periodic solvent-type stripping is required, followed by the reapplication of the sealer. The tight die-skin surface and high density body of IRONROCK does not require this type of sealing and we do not recommend it.

Initial cleaning

The secret to a successful tile maintenance program is to begin with a clean surface. It should be the responsibility of the tile installer to thoroughly clean and remove all the grout residue and the dulling film inherent in the installation process. After initial clean-up, a period should be allowed to permit proper curing — 28 days for maximum grout hardness. Prior to this period, it is recommended that the installer mop the floor with a temporary coating solution of a neutral chemical cleaner (such as Hillyard's Super Shine-All), in a ratio of one part cleaner to one part water. Neutral chemical cleaners, such as Super Shine-All, both clean and enhance the natural soil-resisting character of IRONROCK tile.

When construction is complete and the installation is ready for use, the surface should be cleaned with a solution of the neutral cleaner in a ratio of one cup of cleaner to one gallon of hot water. Under normal conditions, rinsing is not necessary. However, if the surface is extremely dirty, it should be rinsed, allowed to dry, and a second cleaning solution applied.

Recommended maintenance

An IRONROCK tile installation is one of the easiest of all surfaces to maintain — beautifully.

1. Sweep, vacuum, or wipe as necessary, to remove dust, dirt, and grit.
2. Remove heavy spills or spots with a heavy detergent and stiff brush or a nonmetallic scouring pad. There are several strong cleaners which can be used for "spot type" cleaning of heavy spills.
3. Routinely mop the surface with a neutral liquid cleaner, such as Hillyard's Super Shine-All, in a ratio of one-third to one-half cup of cleaner to one gallon of warm water.
4. Remove all dirty cleaning solution and allow to dry thoroughly. Rinsing is not necessary.

The effect of the periodic cleanings will be to remove accumulated soil and to enhance the natural soil-resisting character of the tile. Over time, the surface will develop its own natural patina without the build up of a residual coating on the tile, or the problems associated with sealing the tile.

Exterior applications

Even exterior installations, such as patios and public areas where food spills or other extreme soiling may take place, can benefit from an initial application of a neutral cleaner, such as Hillyard's Super Shine-All. The rinsing action of rain or an occasional hosing or mopping of the surface should be sufficient to maintain the character and natural beauty of IRONROCK.

NOTE: All materials will wear with time — either man-made or natural. IRONROCK also will wear with time, but as it does, its high quality, high density body will develop a natural finish characteristic of all fine natural materials — and the beauty of the surface will be enhanced accordingly.

Our Guarantee

Metropolitan Ceramics guarantees that its products will meet or exceed performance specifications stated herein. Eighty years experience in the ceramic products industry has been combined with the latest applicable industry testing methods and standards to insure product reliability. Defective units will be replaced F.O.B. plant provided notice is given and acknowledged prior to installation. Because specific installation details, structural design, and environmental conditions are beyond the control of the Company, we cannot accept responsibility for the performance of our products after they are installed. In the event of latent defects however, which are caused by improper manufacture, the Company will replace any defective units F.O.B. plant provided the Company is notified within one year of installation or within 18 months of shipment of the products, whichever occurs first. Consult the attached Company's Terms and Conditions of Sale for complete product warranty details.

We back IRONROCK with service

Our Sales and Marketing staff keeps currently informed on installation techniques from site preparation to maintenance of IRONROCK tile. You can look to us for assistance in finding the answers you need to specify and use quality IRONROCK tile with complete satisfaction.



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Architect As A Developer

ARCHITECT OR FIRM

Potter Lawson & Pawlowsky, Inc.
Madison, Wisconsin

OWNER

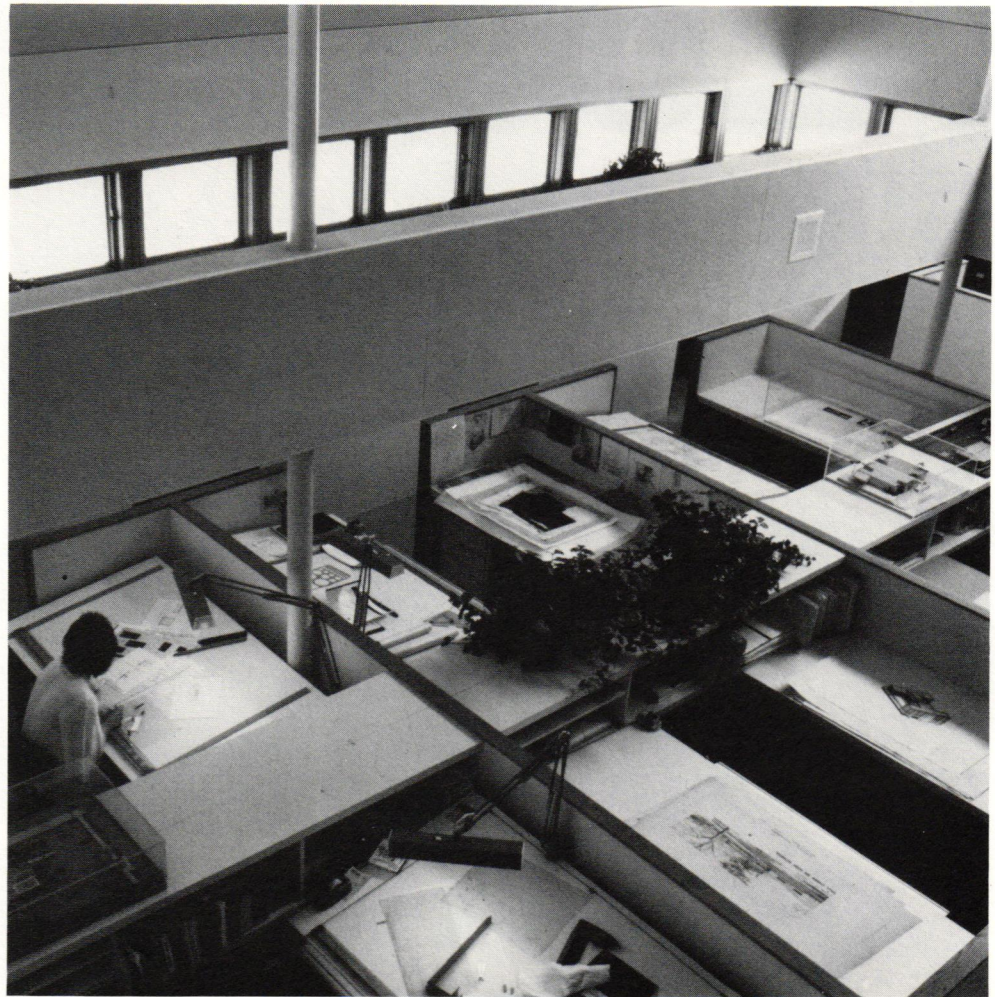
JDA Partnership
Madison, Wisconsin

PROJECT

JDA Office Building
Madison, Wisconsin

PHOTOGRAPHER'S CREDIT

James T. Potter, AIA



When Potter Lawson & Pawlowsky needed a larger, permanent home with room for expansion, the decision was made to design and build a facility that would accommodate the requirements of an architectural firm and provide additional space for tenants.

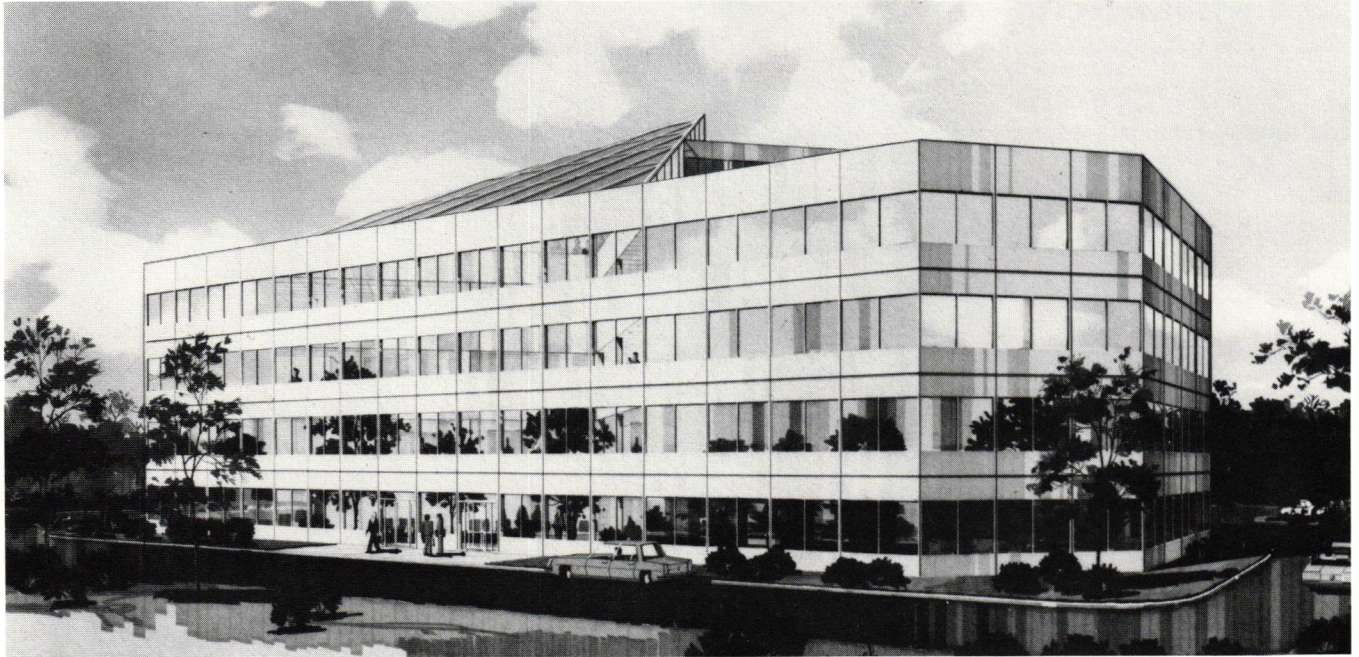
The slope of the site was utilized to provide on-grade entrances to both ground floor and first floor. The architectural office on the first floor is organized around a service core which holds secretarial functions, a print room, restrooms, kitchenette, and supply rooms. The mezzanine level of the core contains storage space and the interior design group.

All the surrounding spaces are housed under a sloping roof/ceiling which continues around the entire building. This creates exciting perimeter spaces, as well as a direct relationship between interior volumes and the external shape of the building.

A skylight organizes the main circulation spaces along the principals' offices, bringing in generous amounts of natural light. Canvas awnings provide a seasonal change in exterior appearance, and make large windows possible in the principals' offices by supplying the necessary summer shading.

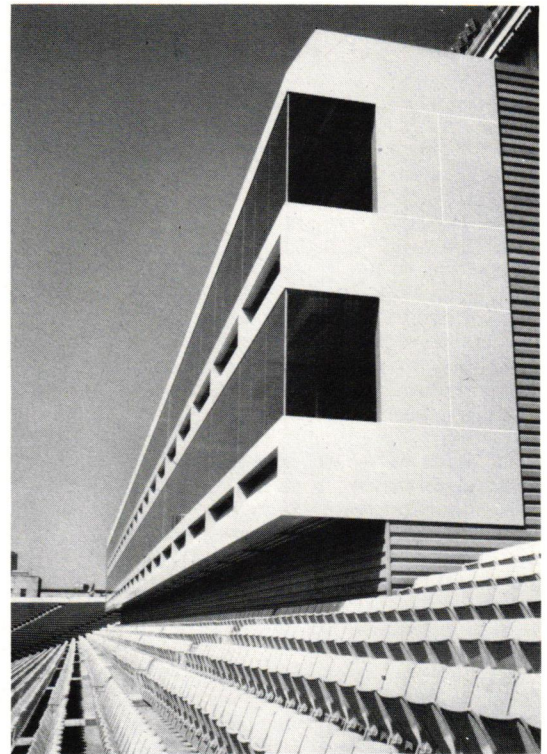


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Top: O'Hare Atrium Office Centre
Architect: Shaw and Associates, Inc.
Bottom: Soldier Field Private Suites
Architect: Chicago Park District



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Architect As A Developer

ARCHITECT

PSI Design
Frank Richardson, AIA
Big Bend, Wisconsin

OWNER OR DEVELOPER

Vernon Venture
Big Bend, Wisconsin

GENERAL CONTRACTOR

Peter Schwabe, Inc.
Big Bend, Wisconsin

PROJECT

PSI Office Building
Big Bend, Wisconsin

PHOTOGRAPHER'S CREDIT

Eric Oxendorf



An evolution of ideas brought forth the concept for the contemporary building that is the headquarters for Peter Schwabe, Inc., General Contractor and PSI Design, and Architecture/Interior Design firm. Ideas that retained the flair of the 19th Century villas and prairie style architecture while incorporating materials of the 80's were utilized by PSI Design's Architect, Frank Richardson, AIA.

The use of native materials - weather-edged lannon stone, redwood siding, natural Douglas fir trim, medium and hand split cedar shakes and copper gutters and flashings are carried through to the interior giving one a sense of the outdoors. The southern portion of the building, largely glass, is constructed to allow the penetration of the winter sun while the large overhangs prohibit the summer sun from intruding. The North side of the building is almost entirely buried, providing insulation from the wind and cold.

The 13,775 sq. ft. building has seven heating zones utilizing forced air gas furnaces as well as wood burning stoves. Dampers enable the wood burners to be directed towards any of the seven comfort zones, maximizing the benefit gained from another fuel source. Return air from various zones is mixed together, allowing transfer of heat from one space to another.

Building for themselves, architect and general contractor they wanted a unique building - a showcase for their talents. Working together they were able to "fast track" the project and specifically tailor the building to their needs and desires. Managing the construction themselves, they were able to keep costs down to a level comparable to many "ordinary" office buildings.

wisconsin architect/june 1983



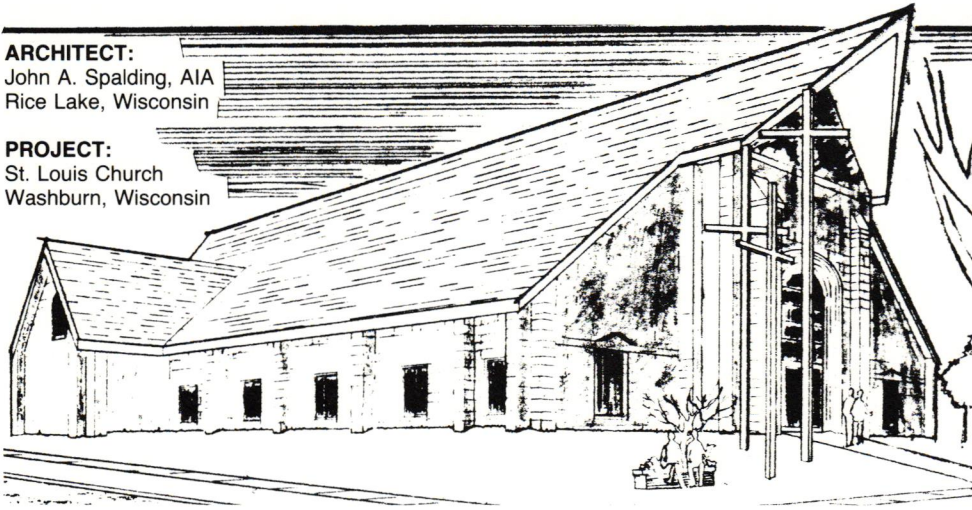
On The Boards

ARCHITECT:

John A. Spalding, AIA
Rice Lake, Wisconsin

PROJECT:

St. Louis Church
Washburn, Wisconsin



DESCRIPTION:

This will be a total reconstruction of a church started in 1904 and never completed. The new church is being designed to meet the needs of modern worship services. Also included in the structure will be a library for the adjacent school and a social space for small parties, coffees, etc.

LANDSCAPE ARCHITECT:

The Sanborn Group, Inc.
Madison, Wisconsin

ARCHITECT:

Sauter, Seaborne, Paynter,
Duszak, Ltd.
Appleton, Wisconsin

PROJECT:

Jones Park Redevelopment
Appleton, Wisconsin

DESCRIPTION:

Jones Park is located in a deep, narrow ravine in downtown Appleton. The primary design objective

was to increase pedestrian accessibility and, by increasing the number and quality of facilities, expand the park's role as a year-round urban open space and neighborhood park.

The new park features included a handicap accessible main entrance ramp from Lawrence Avenue with built-in observation platforms; terraced landforms; a shelter and warming house with restrooms; new hockey and ice skating rinks; hard court game area; and playground equipment.

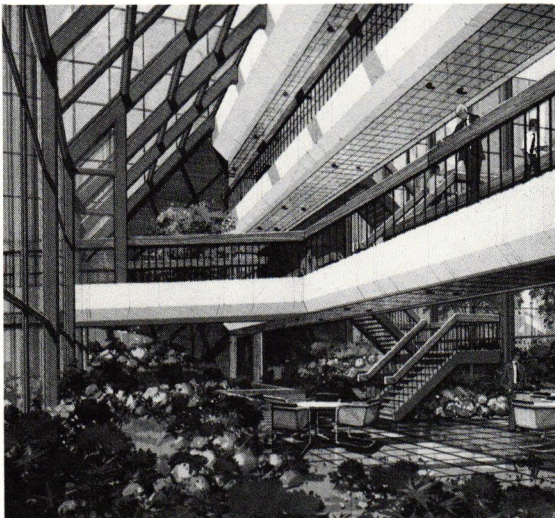
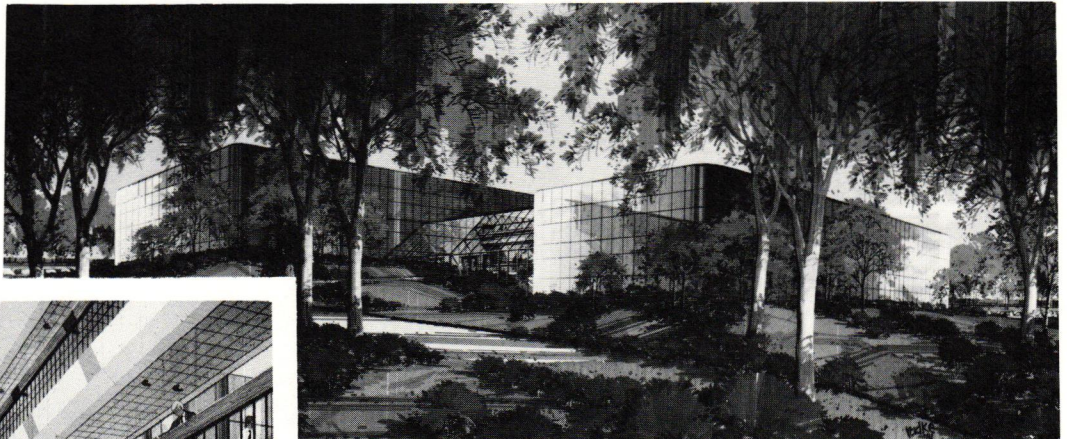


ARCHITECTS:

Wilson/Jenkins & Associates
Milwaukee, Wisconsin

PROJECT:

Chancellory Park II
Bluemound Road and
Sunnyslope Road
Brookfield, Wisconsin



DESCRIPTION:

Construction Documents are presently being completed for the second of three three-story green reflective glass office buildings owned by the Trammell Crow Company. The project includes a glass enclosed three-story atrium, which serves as the focal point to the building as well as the entrance. The site is naturally wooded and steeply sloped which dictated the building to be stepped. Construction is scheduled for June 1983.

YOUR PROJECT COULD BE HERE. CALL THE WSA TO OBTAIN A ONE PAGE FORM WHICH YOU CAN FILL OUT IN FIVE MINUTES (GUARANTEED) IN ORDER TO PROVIDE THE NECESSARY INFORMATION.

Society News

ADVANTAGE . . . ARCHITECT

The Marlboro man may have to step down from his saddle to make way for . . . the Vantage architect. "The architect has become a sort of hero," alleges Robert Hirsch, Senior Vice President of Leber Katz Partners Advertising, explaining why an architect was chosen to spearhead the new Vantage cigarette campaign.

"We tested to see which professionals were at once recognizable and respected. The architect rated high." One group that didn't make the recognizable - respectable lineup was lawyers. "We thought they'd be at the top, but we soon discovered they didn't inspire the across-the-board confidence that we wanted to project."

(Editor's Note: Next time you get served with a summons and complaint you can send this article to the attorney suing you.)

MOVIES FROM AIA

Both the WSA and AIA have a number of movies available for use by members. The movies currently owned by WSA are listed at pages 44 and 45 of the February issue of the WISCONSIN ARCHITECT.

An updated list of audio visual materials available for loan and/or sale through the American Institute of Architect's Audio-Visual Library is available by contacting Sandra at the WSA office.

INDIAN (HEAD) POWER

In case you missed it at the recently completed WSA Convention . . . the results are in from the second annual WSA sponsored drafting competition for students enrolled in architectural or civil drafting courses in the Wisconsin Vocational, Technical and Adult Education System.

45 entries were received from three vocational schools. A jury composed of Bill Doyle, AIA; Carl Winnekins; and Gary Immel made the following awards:

1st Place . . . Doug Cuthill (Northeastern Wisconsin Technical Institute.)
2nd Place . . . Ernest Zesiger (Wisconsin Indianhead Technical Institute.)
3rd Place . . . Patrick Washburn (Wisconsin Indianhead Technical Institute.)
Honorable Mention . . . Daniel Morin (Wisconsin Indianhead Technical Institute.)
Honorable Mention . . . Tam Tan (Wisconsin Indianhead Technical Institute.)

The winning submittals were displayed at the recently completed WSA Convention and all submittals were available for review.

This competition was coordinated and directed by Jim Schlueter, AIA, for the last two years. Thanks for a job well done Jim and congratulations to the winners.

CONSTRUCTION MANAGEMENT-NEW AREAS OF A-E LIABILITY

As more and more architects and engineers become construction managers (CM's), they should be aware both of the field's potential pitfalls and that they are actually entering the construction business.

The biggest problem is that there is no consensus of what CM is, what it ought to be, and how the title and concept should be applied. What this means is that the A-E who provides CM services is navigating in uncharted waters and may encounter substantial legal liabilities. It therefore becomes particularly imperative that the contract documents be scrutinized to determine the scope of responsibility and liability of the CM and that the appropriate insurance coverage be obtained.

RICE RECOGNIZED

The WSA has bestowed its Citation For Distinguished Service to Attorney Gerald Rice. Mr. Rice was recognized for his long history as a valuable friend and counsel to the architectural profession in Wisconsin.

In the early days of the AIA program of unification under which the then Wisconsin Chapter AIA and the Wisconsin Architect Association were brought together to form the basis of one strong organization within the structure of the AIA, Mr. Rice guided the newly formed unit, in the formation of its constitution and Bylaws. In subsequent years, in the absence of the young organization having the ability to employ a full time executive officer, Gerry continued to be helpful in guiding the direction of the Association in those early formative years.

Former members of the Architects Division of Wisconsin Registration Board for Architects and Professional Engineers recall the help that board received from Gerry. In earlier years the Registration Board did not have the services of a full time legal adviser, and had to depend upon intermittent temporary assignment from the Attorney General's Office. This resulted in frequent changes in staff members assigned to the Board and an obvious lack of continuity, particularly with reference to changes in the registration law. Through the offices of the Wisconsin Association of Architects, Gerry responded to the needs of the architect's division of the Board. The services included frequent appearances at legislative committee hearings relating to the registration laws.

Attorney Rice is to be commended and congratulated for his many services and keen interest in the good of the architectural profession in Wisconsin.

C.S.I. NORTH CENTRAL REGION CONFERENCE

On August 25, 26, and 27, 1983, Milwaukee Chapter of the Construction Specifications Institute will host the North Central Region Conference in Milwaukee at the Sheraton Mayfair Hotel. The Construction Specifications Institute's primary aims are to promote improved specifications practices in the construction and allied industries. The theme of the conference is Reclaim the Past, Restoration Renovation Retrofit.

Speakers for the Conference will include:

- Realtor, George Bockl
- Specifier, Clarence Huettenrauch
- Architect, Mark F. Pfaller, II
- Historical Society, Harry Anderson
- Contractor, John Heinen

The Construction Specifications Institute is comprised of 16,880 members belonging to 133 chapters and divided into 10 regions. The North Central Region has 18 chapters and 2,434 members, made up of contractors, architects, engineers, suppliers, manufacturers, realtors, and students.

Each noon lunch will be a walking lunch and trade show of over 35 products and displays.

The conference will be topped off with a dinner dance and Milwaukee Chapter's 25th year celebration.

COMPENSATION

To assist architects in small firms with compensation management principles and applications, the AIA has just published COMPENSATION MANAGEMENT: A GUIDE FOR SMALL FIRMS. Written by Peter Piven, FAIA, this monograph discusses the differences between cost-based compensation and value-based compensation. This 25 page publication is included as the fourth component of the AIA Financial Management System along with its companion, COMPENSATION GUIDELINES FOR ARCHITECTURAL AND ENGINEERING SERVICES. A copy is available in the WSA office for your review (you can call the WSA and have it mailed to you or drop by the office to look at it) or it can be ordered through the WSA office (catalog 2M737).

LIQUIDATED DAMAGES

No . . . you don't drink them. Liquidated damages are a form of identifying an owner's damages in the event the contractor does not complete the project on time. There is a myth that in order to enforce a liquidated damage clause there might also be a bonus clause for the contractor. That appears to be incorrect in Wisconsin.

Another option is not to have a liquidated damages clause. The thinking behind this option is that if the contractor fails to perform he will have to go to court anyway . . . so you might as well prove your damages. This is the option that the State of Wisconsin uses in its contracts with contractors.

Neither option is perfect . . . but you should understand how each works.

THE FOUNDATION OF INFORMATION

To sharpen dull files lay them in diluted sulphuric acid until they are eaten deep enough.

REGISTRATION BOARD APPOINTMENTS

Governor Earl has recently appointed Matt Goebel, AIA and Arlan Kay, AIA to serve on the Architects Section of the Examining Board of Architects, Professional Engineers, Designers and Land Surveyors. These appointments have been made to replace H. James Gabriel, AIA and Tom Nisbet, AIA whose terms on the Board recently expired.

The Wisconsin Society of Architects publically acknowledges and thanks Misters Gabriel and Nisbet for their time, effort, and enthusiasm during their tenure on the A-E Registration Board. While the WSA has not always agreed with the positions taken by the Board or these individuals . . . they cannot be faulted for their dedication and willingness to consider issues on the basis of their merits.

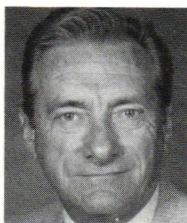
LIVE!! AT THE LAKEFRONT

The Southeast Chapter of the WSA will be sponsoring a kids' ART AND ARCHITECTURE EVENT at Milwaukee's Summerfest June 30 - July 10, 1983. Architects from the Southeast Chapter will be assisting children between the ages of 5 and 12 in their creative endeavors with Lego Systems Building Blocks and drawing materials.

This is a first for this kind of an event. Southeast Chapter members are encouraged to call Dennis Horbinski, AIA at 271-4080 to volunteer to participate. Ask him about **free** tickets.

PEOPLE AND PLACES

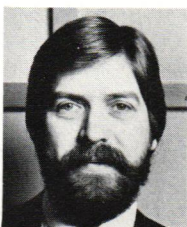
Derald West, AIA



NATHANIEL W. SAMPLE, FAIA, 1105 Rutledge Street, Madison, has just recently become an Emeritus Member of the AIA. Congratulations Nat!

Mr. Derald M. West, AIA, President of Design Center Architects of Lake Geneva has been appointed to a three year term on the Walworth County Solid Waste Management Board. He previously served for 1½ years as Chairman of the Solid Waste Management Technical Advisory Committee and continues to serve on the Walworth County Park and Planning Commission as he has done for fifteen years.

Dennis Olson, AIA



DENNIS OLSON, AIA, has opened his own office to provide architectural services. The mailing address is P.O. Box 2646, Appleton, Wisconsin 54913. The phone (414) 731-4418.

MEMBERSHIP ACTIONS

KUBESH, RENEE, was approved for Student Membership in the Southeast Wisconsin Chapter.

RAMAKER, STAN M., was approved for AIA Membership in the Northeast Wisconsin Chapter.

PARISH, FREDERICK J., was approved for AIA Membership in the Northeast Wisconsin Chapter.

CHAMP, DAVID G., was approved for AIA Membership in the Northeast Wisconsin Chapter.

POWELEIT, THOMAS R., was approved for AIA Membership in the Southeast Wisconsin Chapter.

WENZLER, EDWARD W., was approved for AIA Membership in the Southeast Wisconsin Chapter.

KLETT, JAMES R., was approved for AIA Membership in the Southeast Wisconsin Chapter.

SANDERS, DONALD K., was approved for AIA Membership in the Southwest Wisconsin Chapter.

Be Wiser

Order these practice aids from the AIA Bookshelf. They're available at a special discount to AIA members.

	AIA Member	Nonmember
<i>Architect's Handbook of Energy Practice</i>		
Series of 12 monographs (4Z700-0)	\$170	\$205
(Monographs listed below are available immediately. The final five monographs will be sent to you as quickly as they appear, within the next six months.)		
Individual monographs:		
Shading and Sun Control (4Z700-1)	15	18
Climate and Site (4Z700-2)	15	18
Building Envelope (4Z700-3)	15	18
Daylighting (4Z700-4)	15	18
HVAC Systems (4Z700-5)	15	18
Active Solar Systems (4Z700-6)	15	18
Thermal Transfer Through the Envelope (4Z700-7)	15	18
<i>Architect's Handbook of Professional Practice</i>, 3-volume set (1M104)	42	60
<i>Current Techniques in Architectural Practice</i>, by Robert A. Class and Robert E. Koehler (2M701)	28	35
<i>Managing Architectural Projects: The Process</i>, by David S. Haviland (2M727)	18	22.50
<i>Managing Architectural Projects: The Effective Project Manager</i>, by David S. Haviland (2M730)	10	12.50
<i>Managing Architectural Projects: Three Case Studies</i>, by David S. Haviland (2M732)	19.50	24
<i>The Sourcebook: Learning by Design</i> (4Z601)	25	25

ORDERING IS AS SIMPLE AS ONE, TWO, THREE:

- 1) Call the WSA office (Madison - 257-8477; Wisconsin - 1-800-362-3912)
- 2) Order document or publication.
- 3) Make payment upon delivery.



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Brush			
	3 GALLONS STAIN	\$ 30.00	\$157.50 LABOR
Spray			
	2.5 GALLONS STAIN	\$ 25.00	\$162.50 LABOR



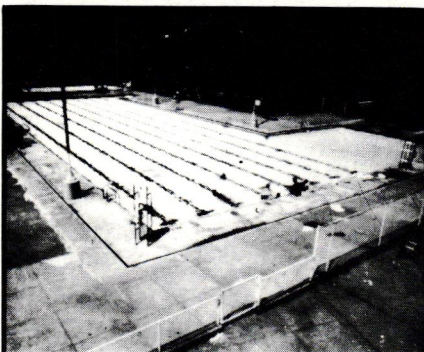
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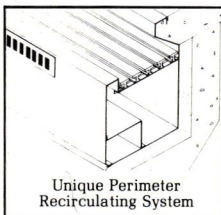
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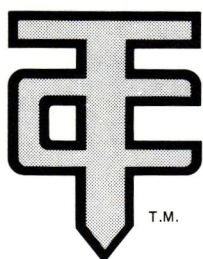


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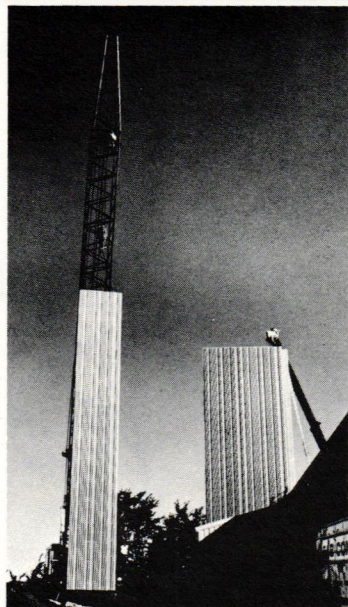
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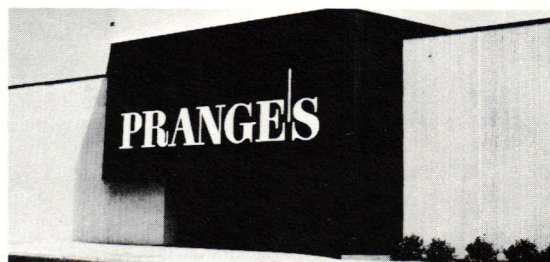


HERITAGE WAFER CO., RIPON — This addition to an existing cookie plant was notable for its 54 foot high wall panels. Fabcon panels are cast on rolling beds up to 700' long then cut to precise shapes and lengths.

MILLER BREWING COMPANY, MILWAUKEE — Warehousing facilities built with Fabcon insulated sandwich panels provide long-term savings through reduced maintenance requirements.



DISTRIBUTION CENTER, DODGEVILLE — The integral insulation in the 36' long ground-to-roof Fabcon wall panels provides outstanding energy efficiency for lower operating costs at this 150,000 sq. ft. warehouse/distribution center.



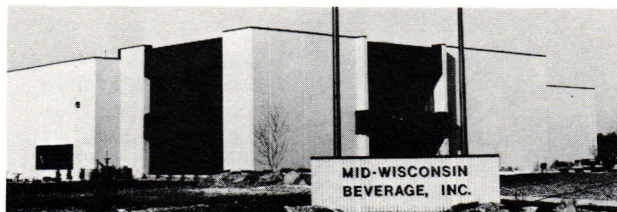
RAPIDS MALL, WISCONSIN RAPIDS — Shopping centers across the Upper Midwest built with Fabcon precast panels offer tenants attractive advantages.



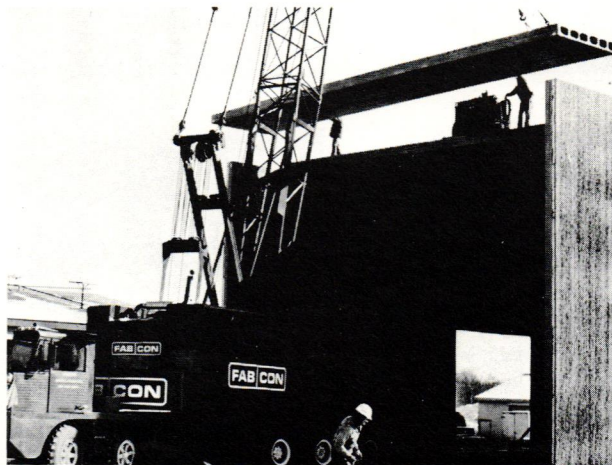
HELFAER RECREATION CENTER, MARQUETTE UNIVERSITY, MILWAUKEE — A multi-use recreational facility with raked finish wall panels for visual interest and an open span interior for recreational use.



PEPSI-COLA BOTTLING, EAU CLAIRE — Continued selection of Fabcon panels is a testament to owner satisfaction with price, performance and appearance.



MID-WISCONSIN BEVERAGE, WAUSAU — Fabcon panels have been specified at four Pepsi Cola manufacturing facilities in recent years. The structural stability provided by Fabcon is a strong selling point.



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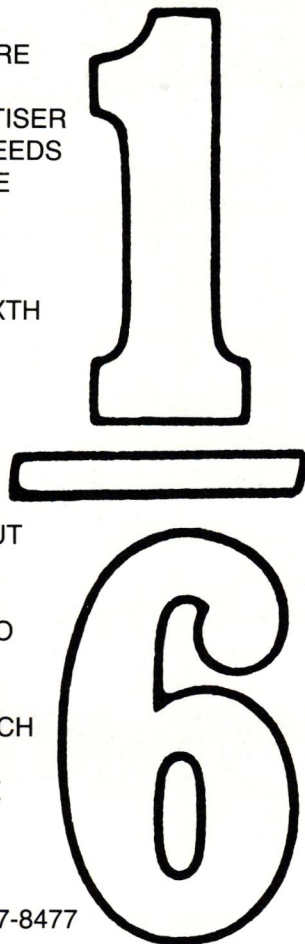
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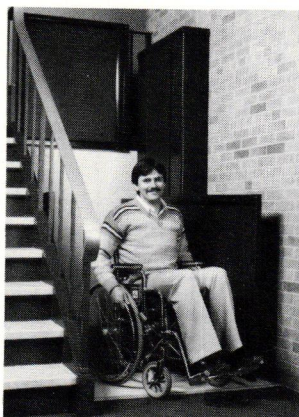
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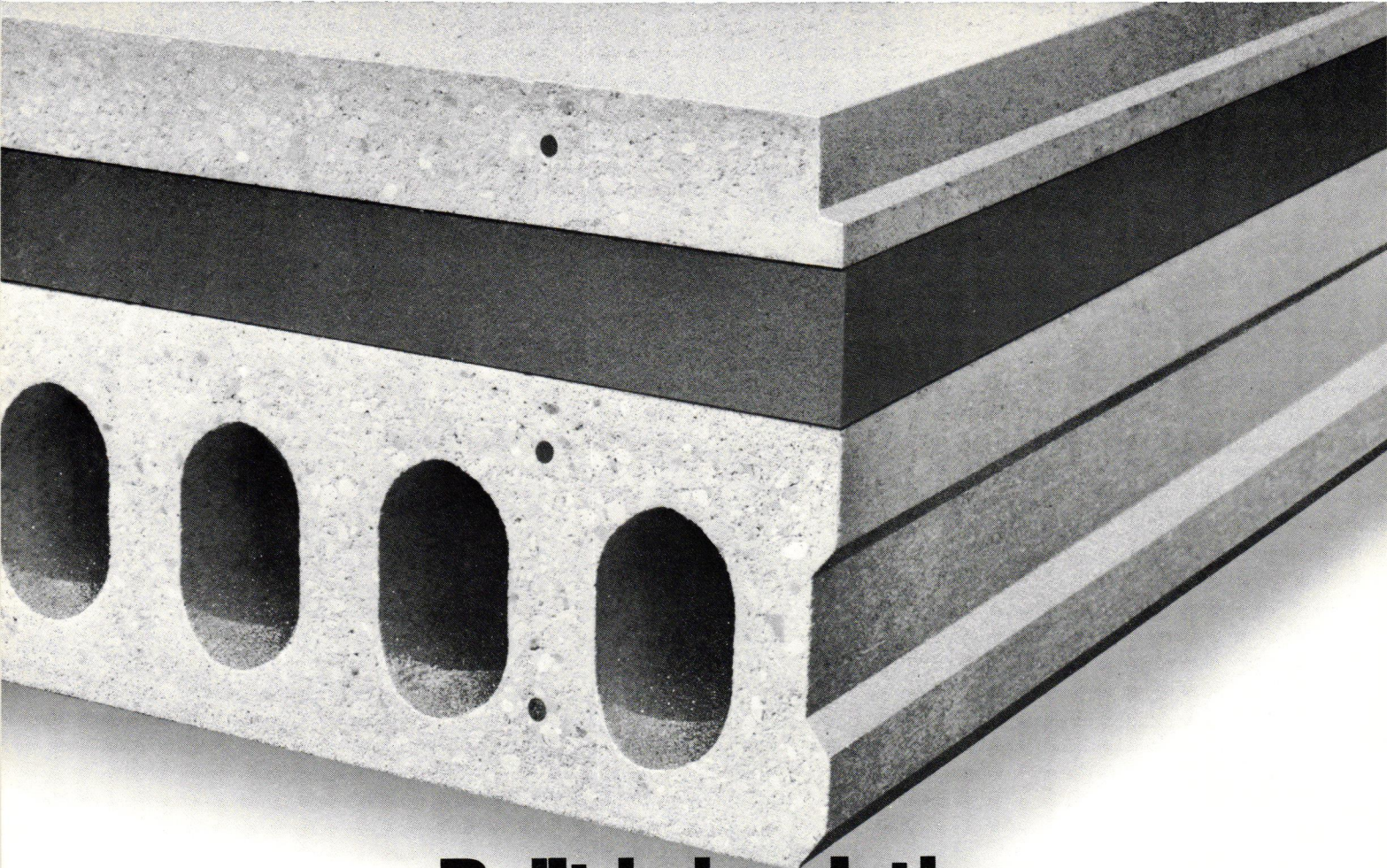
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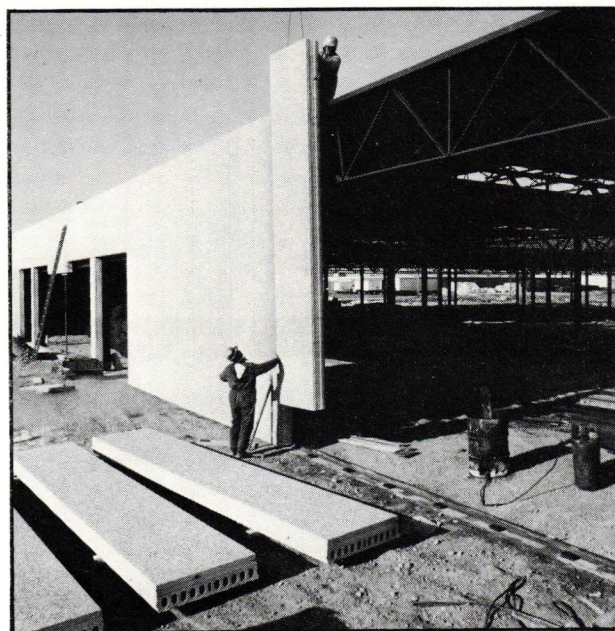
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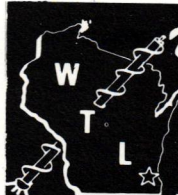
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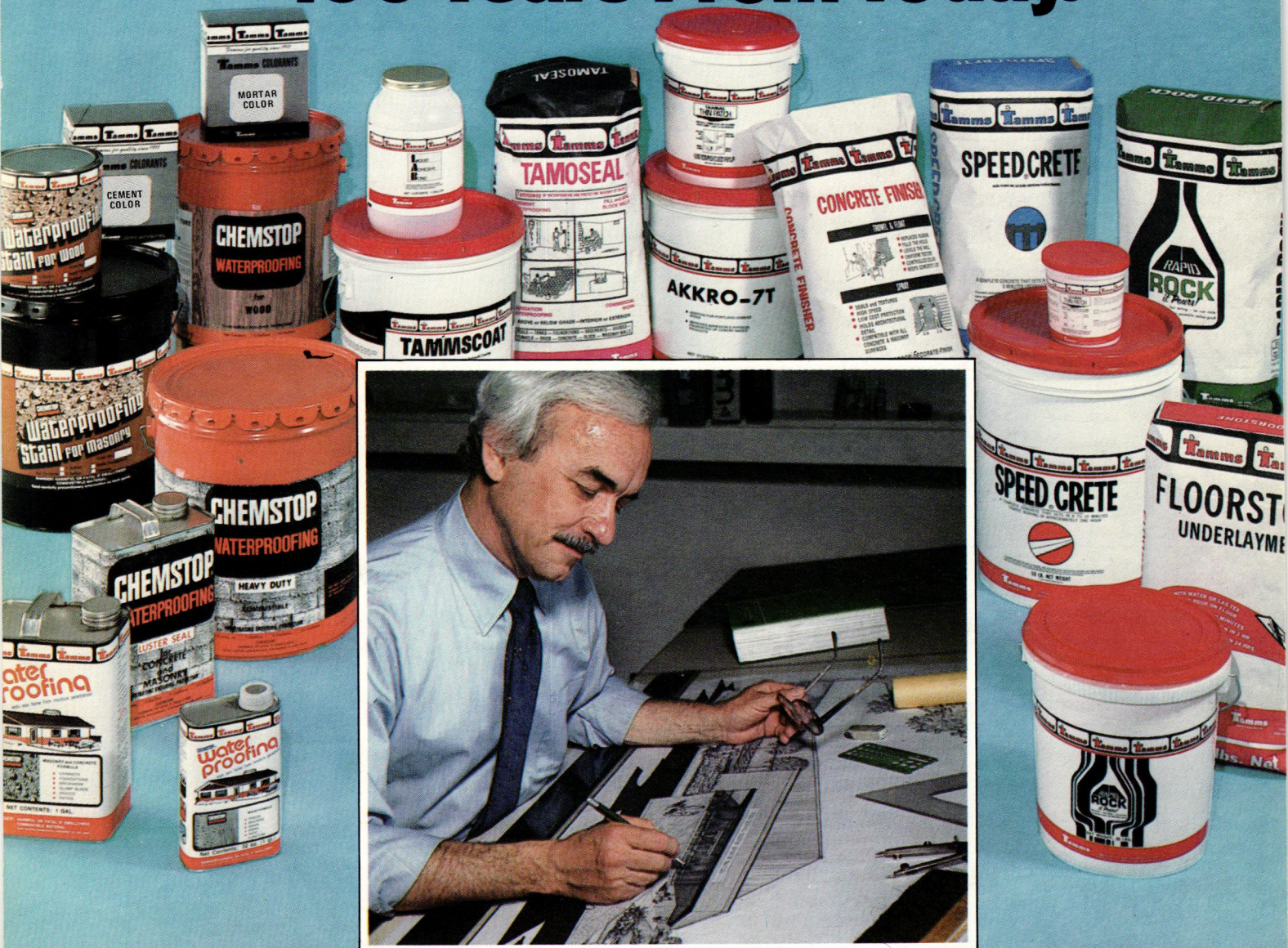
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